<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER / CATALOG NO.</th>
<th>LAMPS</th>
<th>VOLTAGE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>DECORATIVE PENDANT</td>
<td>LIGHTOLIER 40740 PBUC</td>
<td>(1) CF42TT/835</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>A2</td>
<td>LINEAR PENDANT INDIRECT CONCAVE SHEILDING</td>
<td>FOCAL POINT FV3S</td>
<td>(2) F54T5HO/841</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>A2b</td>
<td>LINEAR PENDANT INDIRECT CONCAVE SHEILDING</td>
<td>FOCAL POINT FV3S</td>
<td>(1) F54T5HO/841</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>A3</td>
<td>4' COVE LIGHT 95% SPECULAR ALUMINUM REFLECTOR WHITE ENAMAL FINISH</td>
<td>PRUDENTIAL SC</td>
<td>(1)F32T8/830</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>A4</td>
<td>SURFACE MTD WALLWASH ALUMINUM REFLECTOR SILVER, SATIN MATT ANODISED</td>
<td>ERCO 65043.000</td>
<td>(1)F28T5/841</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>8&quot; DOWNLIGHT, HORIZONTAL LAMP DARKLIGHT REFLECTOR ALUMINUM BRIGHT ANODISED</td>
<td>ERCO 22225.023</td>
<td>(2) CFQ26W/G24Q/835</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>B2</td>
<td>LIGHTCAST WALLWASHER DARKLIGHT REFLECTOR ALUMINUM MIRROR VAPORISED FINISH</td>
<td>ERCO 83855.000</td>
<td>(2) CFQ26W/G24Q/830</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>B3</td>
<td>8&quot; DOWNLIGHT, HORIZONTAL LAMP DARKLIGHT REFLECTOR ALUMINUM BRIGHT ANODISED</td>
<td>ERCO 22225.023</td>
<td>(2) CFQ26W/G24Q/841</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>B4</td>
<td>8&quot; WALL WASHER</td>
<td>KURT VERSEN - P905</td>
<td>(1) CFQ26W/G24Q/841</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>8&quot; DOWNLIGHT/VERTICAL LAMP LOW BRIGHTNESS REFLECTOR OUTDOOR</td>
<td>ERCO - 81022.023</td>
<td>(1)MH39W/830</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td>8&quot; DOWNLIGHT/VERTICAL LAMP DARKLIGHT REFLECTOR OUTDOOR</td>
<td>ERCO - 81029.000</td>
<td>(1)CFQ18W/G24Q/830</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>C3</td>
<td>3' BOLLARD</td>
<td>LOUIS POLLEN - BYS</td>
<td>(1)MH100W/830</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>C4</td>
<td>POLE LIGHT ASYMMETRIC INDIRECT INDIRECT REFLECTIVE OPTICAL SYSTEM</td>
<td>PROVIDENCE - PROV-IN</td>
<td>(1) MH50W/830</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>C5</td>
<td>OUTDOOR SPOT SPHEROLIT REFLECTOR SILVER, SPECULAR ANODIZED</td>
<td>ERCO - 34028.023</td>
<td>(1)MH39W/830</td>
<td>277</td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>SCONCE</td>
<td>SPILIGHTING P1W1016</td>
<td>(1)CFQ18W/830</td>
<td>277</td>
<td>DIMMING</td>
</tr>
<tr>
<td>D2</td>
<td>TABLE LAMP</td>
<td>CUSTOM</td>
<td>(1)CFQ13W/G24Q/830</td>
<td>120</td>
<td>outlet</td>
</tr>
</tbody>
</table>
Type: A1
Lamp: (1)CF42TT/835
Type: A2
Lamp: (2)F54T5HO/841

FEATURES
Suspend linear indirect fluorescent with concave shielding.

Verve™ III is an excellent choice for open areas, small offices, lobbies, corridors and educational facilities.

shielding options
- square
- slotted
- round

color options
- cherry red
- Kelly green
- sky blue

COMPANION LUMINAIRE
- wall mount

DIMENSIONAL DATA
lamping options
- T5HO LAMPS
- T5 LAMPS
- T6 LAMPS

fixture information
- 4" x 4" x 20"

PERFORMANCE
Square Shielding 3-Lamp T5HO
- 14.3% Efficiency
- 3,952 cd @ 32"
- 35% Indirect
- 5% Direct

See Photometric section for additional performance data.
**SPECIFICATIONS**

**construction**
- One-piece 20 Ga. steel housing.
- 20 Ga. concave shield available with round, square or slotted perforations.
- Concave shield includes white acrylic insert.
- Optional red, green or blue color gel may be specified.
- Ends of concave shielding is finished with specular aluminum insert and die-cast trim piece.
- Die-cast end cap fastened to housing.
- For row installation, internal brackets form hairline joint.
- All luminaires are provided with a Y-cable suspension system and are mounted on 48” or 96” centers.

- 4’ unit weight: 22 lbs.
- 8’ unit weight: 32 lbs.

**optic**
- Reflector fabricated of low iridescent, semi specular premium grade aluminum.

**electrical**
- Luminaires include factory installed branch circuit wiring with over-molded quick connects.
- Electronic ballasts are thermally protected and have a Class “P” rating.
- Factory installed SJT power cord at feed location is included.
- Optional DALL and other dimming ballasts available.
- Consult factory for dimming specifications and availability.
- UL and cUL listed.

**emergency**
- Emergency battery packs provide 90 minutes of one lamp illumination.
- Initial lumen output for lamp types are as follows:
  - T5 Lamp: Up to 425 lumens
  - T8 Lamp: Up to 500 lumens
  - T5 HO Lamp: Up to 625 lumens
- Battery pack requires unswitched hot from same branch circuit as AC ballast.

**finish**
- Polyester powder coat applied over a 5-stage pretreatment.
- Standard luminare housing finished in Matte Satin White or Titanium Silver.
- Canopy finished in Matte Satin White.

**ORDERING**

- **luminare series**
  - Verne III FV3S
  - Round Perforated Shielding PS
  - Square Shielding SQ
  - Slotted Shielding SL

- **color gel**
  - Cherry Red Gel R
  - Kelly Green Gel G
  - Sky Blue Gel B

- **lamping**
  - 2 Lamp T5 2T5
  - 3 Lamp T5 3T5
  - 1 Lamp T5HO 1T5HO
  - 2 Lamp T5HO 2T5HO
  - 3 Lamp T5HO 3T5HO
  - 2 Lamp T8 2T8
  - 3 Lamp T8 3T8

- **circuit**
  - Single Circuit M
  - Dual Circuit C

- **voltage**
  - 120 Volt 120
  - 277 Volt 277
  - 347 Volt 347

- **ballast**
  - Electronic Instant Start E
  - Electronic Program Start S
  - Electronic Dimming Ballast D

- **mounting**
  - 24” Cable Suspension C24
  - 48” Cable Suspension C48
  - 96” Cable Suspension C96

- **factory options**
  - Emergency Circuit EC
  - Emergency Battery Pack EM
  - Optional Fuse FU
  - Include 3000K Lamp L30
  - Include 3000K Lamp L30
  - Include 3000K Lamp L30

- **finish**
  - Matte Satin White WH
  - Titanium Silver TS

- **luminare run length**
  - 4’ 4’
  - 8’ 8’
  - 12’ (4’x3’) 32’
  - 10’ (4’x4’x4’) 40’
  - 20’ (4’x4’x4’) 20’
  - 24’ (4’x4’x4’) 24’

- **integrator options**
  - 90-degree Corner FV3-90
Type: A2b
Lamp: (1)F54T5HO/841

FEATURES
Suspend linear indirect fluorescent with concave shielding.

Verve™ III is an excellent choice for open areas, small offices, lobbies, corridors and educational facilities.

shielding options
- square
- slotted
- round

color options
- cherry red
- lotty green
- sky blue

companion luminaire
- wall mount

DIMENSIONAL DATA

lamping options
- T5HO LAMPS
- T5 LAMPS

fixture information
- 4' (4' 10")
- 6' (6' 10")

PERFORMANCE
Square Shielding
3-Lamp T5HO
04.3% Efficiency
1922 cd @ 92º
5% Direct
See Photometric section for additional performance data.
**MOUNTING INFORMATION**

- 12" start 6" end
- 16" start 4" end
- 20" start 4" intermediate 6" end
- 24" start 4" intermediate 6" end

Consult factory for additional row length information.

**SPECIFICATIONS**

**construction**
- One-piece 20 Ga. steel housing.
- 20 Ga. concave shield available with round, square or slotted perforations.
- Concave shield includes white acrylic insert.
- Optional red, green or blue color gel may be specified.
- Ends of concave shield is finished with specular aluminum insert and die-cast trim piece.
- Die-cast end cap fastened to housing.
- For row installation, internal brackets form harline joint.
- All luminaires are provided with a Y-cable suspension system and are mounted on 45° or 90° centers.
  - 45° unit weight: 22 lbs.
  - 90° unit weight: 52 lbs.

**optic**
- Reflector fabricated of low iridescent, semi specular premium grade aluminum.

**electrical**
- Luminaires include factory installed branch circuit wiring with over-molded quick connects.
- Electronic ballasts are thermally protected and have a Class "P" rating.
- Factory installed SJT power cord at feed location is included.
- Optional DALI and other dimming ballasts available.
- Consult factory for dimming specifications and availability.
- UL and cUL listed.

**emergency**
- Emergency battery packs provide 90 minutes of one lamp illumination.
- Initial lumen output for lamp types are as follows:
  - 2L Lamp: Up to 425 lumens
  - 3L Lamp: Up to 550 lumens
  - 3Ls HO Lamp: Up to 625 lumens
- Battery pack requires unswitched hot from same branch circuit as AC ballast.

**finish**
- Polyester powder coat applied over a 5-stage pretreatment.
- Standard luminaire housing finished in Matte Satin White or Titanium Silver; Canopy finished in Matte Satin White.

**ORDERING**

<table>
<thead>
<tr>
<th>Luminaire series</th>
<th>Verve III</th>
<th>FV3S</th>
</tr>
</thead>
<tbody>
<tr>
<td>shielding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(includes wire clips)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Round Perforated Shielding</td>
<td>PS</td>
<td></td>
</tr>
<tr>
<td>Square Shielding</td>
<td>SQ</td>
<td></td>
</tr>
<tr>
<td>Slotted Shielding</td>
<td>SL</td>
<td></td>
</tr>
<tr>
<td>optional color gel</td>
<td>(optional for color)</td>
<td></td>
</tr>
<tr>
<td>Cherry Red Gel</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Kelly Green Gel</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>Sky Blue Gel</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>lamping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Lamp Ts</td>
<td>2Ts</td>
<td></td>
</tr>
<tr>
<td>3 Lamp Ts</td>
<td>3Ts</td>
<td></td>
</tr>
<tr>
<td>3 Lamp TsHO</td>
<td>3TsHO</td>
<td></td>
</tr>
<tr>
<td>2 Lamp TsHO</td>
<td>2TsHO</td>
<td></td>
</tr>
<tr>
<td>3 Lamp TsHO</td>
<td>3TsHO</td>
<td></td>
</tr>
<tr>
<td>2 Lamp Te</td>
<td>2Te</td>
<td></td>
</tr>
<tr>
<td>3 Lamp Te</td>
<td>3Te</td>
<td></td>
</tr>
<tr>
<td>circuit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Circuit</td>
<td>sC</td>
<td></td>
</tr>
<tr>
<td>Dual Circuit</td>
<td>2C</td>
<td></td>
</tr>
<tr>
<td>(Multiple lamp fixtures ok)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>voltage</td>
<td>120 Volt</td>
<td>120 Volt</td>
</tr>
<tr>
<td></td>
<td>277 Volt</td>
<td>277 Volt</td>
</tr>
<tr>
<td></td>
<td>347 Volt</td>
<td>347 Volt</td>
</tr>
<tr>
<td>(Consult factory for availability)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ballast</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic Instant Start</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>(&lt;20% THD)</td>
<td>20% (0%)</td>
<td></td>
</tr>
<tr>
<td>Electronic Program Start</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>(&lt;10% THD)</td>
<td>10% (0%)</td>
<td></td>
</tr>
<tr>
<td>Electronic Dimming Ballast</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>(Consult factory for dimming applications)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mounting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24&quot; Cable Suspension</td>
<td>C24</td>
<td></td>
</tr>
<tr>
<td>48&quot; Cable Suspension</td>
<td>C48</td>
<td></td>
</tr>
<tr>
<td>96&quot; Cable Suspension</td>
<td>C96</td>
<td></td>
</tr>
<tr>
<td>(Specify &quot;L&quot; in place of &quot;S&quot; for 12&quot; diameter canopies as power feed and 24&quot; diameter canopies as non-lit canopies) (Consult factory for shaped ceiling applications)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>factory options</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Circuit</td>
<td>EC</td>
<td></td>
</tr>
<tr>
<td>Emergency Battery Pack</td>
<td>EM</td>
<td></td>
</tr>
<tr>
<td>HLR/GLR Fuse</td>
<td>FU</td>
<td></td>
</tr>
<tr>
<td>Include 3000 Lumen Lamp</td>
<td>L3000</td>
<td></td>
</tr>
<tr>
<td>Include 5000 Lumen Lamp</td>
<td>L5000</td>
<td></td>
</tr>
<tr>
<td>Include 6000 Lumen Lamp</td>
<td>L6001</td>
<td></td>
</tr>
<tr>
<td>finish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matte Satin White</td>
<td>WH</td>
<td></td>
</tr>
<tr>
<td>Titanium Silver</td>
<td>TS</td>
<td></td>
</tr>
<tr>
<td>luminaire run length</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4' 4' 4' 4' 4'</td>
<td>4' 4' 4' 4' 4'</td>
<td></td>
</tr>
<tr>
<td>6' 6' 6' 6' 6'</td>
<td>6' 6' 6' 6' 6'</td>
<td></td>
</tr>
<tr>
<td>12' (m-6') 12'</td>
<td>12' (m-6') 12'</td>
<td></td>
</tr>
<tr>
<td>20' (m-6') 20'</td>
<td>20' (m-6') 20'</td>
<td></td>
</tr>
<tr>
<td>24' (m-6') 24'</td>
<td>24' (m-6') 24'</td>
<td></td>
</tr>
<tr>
<td>integrator options</td>
<td>180-degree Corner</td>
<td>FV3-90</td>
</tr>
</tbody>
</table>
### Type: **A3**  
**Lamp:** (1)F32T8/830

### ordering

<table>
<thead>
<tr>
<th>series</th>
<th>lamp rows</th>
<th>nominal length</th>
<th>voltage</th>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>1T8</td>
<td>02'</td>
<td>120</td>
<td>PAF</td>
</tr>
<tr>
<td></td>
<td>1T5</td>
<td>03'</td>
<td>277</td>
<td>EML*</td>
</tr>
<tr>
<td></td>
<td>1T5HO</td>
<td>04'</td>
<td>347*</td>
<td>EMH+</td>
</tr>
<tr>
<td></td>
<td>06'</td>
<td></td>
<td></td>
<td>DM</td>
</tr>
<tr>
<td></td>
<td>08'</td>
<td></td>
<td></td>
<td>RSE+</td>
</tr>
<tr>
<td></td>
<td>R--*</td>
<td></td>
<td></td>
<td>10THD+</td>
</tr>
<tr>
<td></td>
<td>*nom length</td>
<td></td>
<td></td>
<td>B-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>QC</td>
</tr>
</tbody>
</table>

*consult factory for fixture lengths < 4'  
*T8 only

### Applications
Coves, retail, lobbies, small offices, conference rooms.

### Features
A low-profile core lighting system designed for T5HO or T6 lamps with a unique 3-piece optical system. Formed 95 percent reflective specular aluminum reflector throw light at low angles. Galvanized steel bottom reflector directs and diffuses light on ceiling to eliminate stigmas while limiting uplight. White backlit reflector fills the cove cavity with light, limiting socket shadow.

### Construction
The housing, available in 2-, 3-, 4-, 6- or 8-foot standard lengths, and end plates are made of die-formed, 20-gauge steel. The three part reflector system is die-formed from 95 percent reflective specular aluminum, 20-gauge steel and galvanized steel.

### Finish
The standard exterior body color is white enamel.

### Electrical
T8 fixtures have instant-start electronic ballasts with less than 20% THD. T5HO fixtures have programmed start electronic ballasts with less than 10% THD. Fixtures are U.L. Lamp labeled (non-emergency) and I.E.E.W. manufactured. Maximum ballasts size available: 1 3/4" width x 1 3/4" height.

### Mounting
Fixture is to be surface-mounted within concealed coves.

### Options
PAF: painted after fabrication; EML: emergency battery (T5HO=700 lumens; T8=600 lumens); EMH: emergency battery (T5HO=1200 lumens; T8=1200 lumens); DM: dimming (consult factory); RSE: rapid-start electronic (T8 only); 10THD: ballast with < 10% total harmonic distortion; B: specific ballast, specify manufacturer and catalog number (consult factory); FH: fixture fusing (slow blow); QC: quick-connect circuit assemblies.
photometric data

<table>
<thead>
<tr>
<th>SC-17535C-04</th>
<th>Candlepower Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report # LS16098</td>
<td>D=0.0% L=1.00%</td>
</tr>
<tr>
<td>Lamp Lumens: 4400</td>
<td>Input Watts: 58</td>
</tr>
<tr>
<td>Vertical Angle</td>
<td>Horizontal Angle</td>
</tr>
<tr>
<td>90</td>
<td>22.5°</td>
</tr>
<tr>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>95</td>
<td>89</td>
</tr>
<tr>
<td>100</td>
<td>37</td>
</tr>
<tr>
<td>105</td>
<td>74</td>
</tr>
<tr>
<td>110</td>
<td>111</td>
</tr>
<tr>
<td>115</td>
<td>147</td>
</tr>
<tr>
<td>120</td>
<td>183</td>
</tr>
<tr>
<td>125</td>
<td>222</td>
</tr>
<tr>
<td>130</td>
<td>256</td>
</tr>
<tr>
<td>135</td>
<td>260</td>
</tr>
<tr>
<td>140</td>
<td>323</td>
</tr>
<tr>
<td>145</td>
<td>349</td>
</tr>
<tr>
<td>150</td>
<td>374</td>
</tr>
<tr>
<td>155</td>
<td>395</td>
</tr>
<tr>
<td>160</td>
<td>413</td>
</tr>
<tr>
<td>165</td>
<td>427</td>
</tr>
<tr>
<td>170</td>
<td>432</td>
</tr>
<tr>
<td>175</td>
<td>445</td>
</tr>
<tr>
<td>180</td>
<td>429</td>
</tr>
</tbody>
</table>

Zonal Lumen Summary
Zone % Lamp % Luminaire
0-90 0.00 0.00 100.00
0-180 75.74 100.00
Efficiency = 75.0%

Peak Candela = 2458 @ 112.5°
Peak: Zenith Ratio = 5.7:1

Coefficients of Utilization (%)
Floor Ceiling Wall
80 70 50 70 50 30 10 90 50 30 10 90 50 30 10
RCR 6 72 77 72 72 62 62 62 42 42 42 42 42 42 42 42
1 85 85 60 57 56 53 51 49 37 35 34 34 34 34 34
2 104 54 40 47 41 47 43 40 30 30 30 30 30 30 30
3 54 48 43 39 46 41 37 34 28 26 24 24 24 24 24
4 50 42 37 33 42 36 32 26 22 20 18 18 18 18 18
5 45 37 32 28 38 32 27 24 22 19 17 17 17 17 17
6 42 33 28 24 35 28 24 21 20 17 15 15 15 15 15
7 35 30 24 20 32 25 21 18 15 12 12 12 12 12 12
8 32 25 21 18 32 25 21 16 16 13 13 13 13 13 13
9 32 24 19 15 28 21 16 14 12 9 9 9 9 9 9

Installation

Adjoining Detail

Mounting Details

Distance from wall along ceiling

cove to ceiling Peak Candela @ 112.5° 6°/2 cove 8° cove
lamp lamp lamp lamp image lamp image
12° 27° 27° 70° 37° 91°
18° 42° 42° 112° 57° 148°
24° 57° 57° 155° 77° 205°

In an effort to continually provide the highest quality products, Prudential reserves the right to change design specifications and/or materials, without notice.

031 Prudential Lighting 1737 E. 22nd St. Los Angeles, CA 90058 phone 213.746.0360 fax 213.741.8590 www.prulite.com
Type: A4
Lamp: (1)F28T5/841

ERCO
TFL Wallwasher
for fluorescent lamps

65043.000 White [RAL9002]
T16 28W G5 2600lm
ECO

Product description
Housing: aluminium profile, powder-coated.
1 cable entries. Through-wiring possible. 3-pole terminal block.
Electronic control gear.
Wallwasher reflector: aluminium, silver, satin matt anodised. Hinged cover for lamp replacement.
Weight 4.00kgs
## TFL Wallwasher

### Planning data

<table>
<thead>
<tr>
<th>Cleaning (a)</th>
<th>1</th>
<th>P</th>
<th>C</th>
<th>N</th>
<th>D</th>
<th>2</th>
<th>P</th>
<th>C</th>
<th>N</th>
<th>D</th>
<th>3</th>
<th>P</th>
<th>C</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient conditions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UMF</td>
<td>0.94</td>
<td>0.89</td>
<td>0.81</td>
<td>0.72</td>
<td>0.68</td>
<td>0.69</td>
<td>0.66</td>
<td>0.58</td>
<td>0.44</td>
<td>0.37</td>
<td>0.34</td>
<td>0.27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RMSF</td>
<td>0.99</td>
<td>0.98</td>
<td>0.96</td>
<td>0.93</td>
<td>0.89</td>
<td>0.95</td>
<td>0.93</td>
<td>0.87</td>
<td>0.94</td>
<td>0.96</td>
<td>0.95</td>
<td>0.84</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hours of operation (h)

<table>
<thead>
<tr>
<th>2000</th>
<th>4000</th>
<th>6000</th>
<th>8000</th>
<th>10000</th>
<th>12000</th>
<th>14000</th>
<th>16000</th>
<th>18000</th>
<th>20000</th>
</tr>
</thead>
<tbody>
<tr>
<td>UMF</td>
<td>0.96</td>
<td>0.95</td>
<td>0.94</td>
<td>0.93</td>
<td>0.92</td>
<td>0.91</td>
<td>0.90</td>
<td>0.89</td>
<td>0.88</td>
</tr>
<tr>
<td>LSF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MF</th>
<th>LMFxLSMxRMSF x LSF</th>
<th>MF</th>
<th>Maintenance Factor</th>
<th>UMF</th>
<th>Luminaires Maintenance Factor</th>
<th>RMSF</th>
<th>Room Surface Maintenance Factor</th>
<th>LSF</th>
<th>Lamp Survival Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Room pure</td>
<td>C</td>
<td>Room clean</td>
<td>N</td>
<td>Room normal</td>
<td>D</td>
<td>Room dirty</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Illuminance E, [lx]

**Specifications:**
- Number of luminaires \( n > 5 \)
- Wall height (m) 3
- T16 20W 0.5 2600lm

<table>
<thead>
<tr>
<th>Offset from wall (m)</th>
<th>1.00</th>
<th>1.00</th>
<th>1.25</th>
<th>1.25</th>
<th>1.25</th>
<th>1.25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaires spacing (m)</td>
<td>0.250</td>
<td>1.25 below the luminaire</td>
<td>between the luminaires</td>
<td>1.50 below the luminaire</td>
<td>between the luminaires</td>
<td>1.75 below the luminaire</td>
</tr>
<tr>
<td>0.250</td>
<td>285</td>
<td>228</td>
<td>238</td>
<td>176</td>
<td>123</td>
<td>93</td>
</tr>
<tr>
<td>0.500</td>
<td>624</td>
<td>559</td>
<td>599</td>
<td>430</td>
<td>386</td>
<td>313</td>
</tr>
<tr>
<td>0.750</td>
<td>619</td>
<td>579</td>
<td>540</td>
<td>463</td>
<td>506</td>
<td>488</td>
</tr>
<tr>
<td>1.000</td>
<td>510</td>
<td>490</td>
<td>439</td>
<td>401</td>
<td>460</td>
<td>450</td>
</tr>
<tr>
<td>1.250</td>
<td>412</td>
<td>403</td>
<td>352</td>
<td>335</td>
<td>394</td>
<td>389</td>
</tr>
<tr>
<td>1.500</td>
<td>333</td>
<td>327</td>
<td>284</td>
<td>275</td>
<td>333</td>
<td>329</td>
</tr>
<tr>
<td>1.750</td>
<td>269</td>
<td>265</td>
<td>220</td>
<td>225</td>
<td>280</td>
<td>277</td>
</tr>
<tr>
<td>2.000</td>
<td>217</td>
<td>213</td>
<td>185</td>
<td>182</td>
<td>235</td>
<td>233</td>
</tr>
<tr>
<td>2.250</td>
<td>176</td>
<td>172</td>
<td>151</td>
<td>149</td>
<td>197</td>
<td>194</td>
</tr>
<tr>
<td>2.500</td>
<td>144</td>
<td>140</td>
<td>125</td>
<td>122</td>
<td>164</td>
<td>162</td>
</tr>
<tr>
<td>2.750</td>
<td>118</td>
<td>116</td>
<td>104</td>
<td>101</td>
<td>137</td>
<td>135</td>
</tr>
</tbody>
</table>

---

**TFL Wallwasher**

60642000
Type: B1
Lamp: (2)CF26W/835

Lightcast Washlight
for TC-D lamps

Product description
Housing: cast aluminium, designed as heat sink.
Mounting ring: cast aluminium, white (RAL9002) powder-coated.
Tools not required for mounting with 4-point support and screw fixing.
Junction box for through-wiring, 5-pole terminal block, integrated cable clamp.
2 sets of low-loss control gear.
Weight 3.7kg.
### Lightcast Washlight

#### Planning data

<table>
<thead>
<tr>
<th>Cleaning (a)</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient conditions</td>
<td>P</td>
<td>C</td>
<td>N</td>
</tr>
<tr>
<td>LMF</td>
<td>0.94</td>
<td>0.89</td>
<td>0.81</td>
</tr>
<tr>
<td>RSMAF</td>
<td>0.99</td>
<td>0.98</td>
<td>0.96</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours of operation (h)</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>6000</th>
<th>8000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLMF</td>
<td>0.97</td>
<td>0.92</td>
<td>0.88</td>
<td>0.85</td>
<td>0.83</td>
<td>0.83</td>
</tr>
</tbody>
</table>

| LSF | 1 | 1 | 1 | 1 | 1 | 1 |

<table>
<thead>
<tr>
<th>MF</th>
<th>LMF x RSMAF x LLMF x LSF</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF</td>
<td>Maintenance Factor</td>
</tr>
<tr>
<td>LMF</td>
<td>Luminaire Maintenance Factor</td>
</tr>
<tr>
<td>RSMAF</td>
<td>Room Surface Maintenance Factor</td>
</tr>
<tr>
<td>LLMF</td>
<td>Lamp Luminance Maintenance Factor</td>
</tr>
<tr>
<td>LSF</td>
<td>Lamp Survival Factor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P</th>
<th>Room pure</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Room clean</td>
</tr>
<tr>
<td>N</td>
<td>Room normal</td>
</tr>
<tr>
<td>D</td>
<td>Room dirty</td>
</tr>
</tbody>
</table>

#### Illuminance $E_a$ (lx)

**Specifications:**
- Number of luminaires $n > 5$
- Wall height (m) 3
- TC-O 26W G24d-3 1800lm

<table>
<thead>
<tr>
<th>Offset from wall (m)</th>
<th>0.30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire spacing (m)</td>
<td>0.30</td>
</tr>
<tr>
<td>Below the luminaire</td>
<td>184</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>215</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>253</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>277</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>256</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>215</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>193</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>193</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>165</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>140</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>193</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>140</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>193</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>140</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>193</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>140</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>193</td>
</tr>
<tr>
<td>Between the luminaires</td>
<td>140</td>
</tr>
</tbody>
</table>

Lightcast Washlight

22215.000
Lightcast Washlight

Accessories

83816.000
DALI switching actuator, double.
16A
Two voltage-free contacts for
switching ohmic, inductive and
capacitive loads max 16A.
DALI interface with two indepen-
dent addresses.
Mounting on DIN rail.
Weight 0.21kg

83980.000
Cover ring
Metal, white. For covering the gap
where ceiling cut-outs are too big.
Inner and outer diameter to be
specified when placing order.

83973.000
Fixture
For decorative disc size B.
Metal ring, white. 2 flat sleeves,
metal chrome-plated.

83655.000
Plaster ring
Metal, white.
Height 20mm.

83943.000
Decorative circular disc
Size B
Plastic white, translucent, mirror-
finish.
Only in conjunction with:
83973.000

83777.000
Mounting ring
Metal, white powder-coated. For
flush-mounting installation in
plasterboard ceilings.

82950.000
Mounting plate for panelled
ceilings.
Metal, white (RAL 9002)
pow-
der-coated. Individual design of
mounting plates according to
ceiling type and luminaire. Quote
ceiling type and dimensions.
Type: B2
Lamp: (2)CF26W/830

**Lightcast Wallwasher**
for TC-D lamps

- **B3885.000** Reflector silver
  2xTC-D 26W 6240-3 1800lm

**Product description**
- Housing: metal, black powder-coated.
- Mounting ring: cast aluminium, white (RAL9002) powder-coated
- 2 cable entries, through-wiring possible. 5-pole terminal block.
- 2 sets of low-loss control gear.
- Upper reflector: aluminium, silver anodised.
- Diffuser refector: plastic, mirror-finish aluminium vapourised, outside white. Scratch resistant special coating. Cut-off angle 40°.
- Weight 2.70kg.

---

ERCOL Leuchten GmbH
Postfach 34 60
49505 Ludenscheid
Germany
Tel.: +49 2951 551-0
Fax.: +49 2951 551-330
info@erco.com

Technical Data: 230V/50Hz
Edition: December 16, 2005
Please download the current version from www.erco.com/83885.000
## Lightcast Wallwasher Planning Data

<table>
<thead>
<tr>
<th>Cleaning (a)</th>
<th>Ambient conditions</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMF</td>
<td>P</td>
<td>0.94</td>
<td>0.89</td>
<td>0.91</td>
</tr>
<tr>
<td>RSMEF</td>
<td>C</td>
<td>0.99</td>
<td>0.98</td>
<td>0.96</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours of operation (h)</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>6000</th>
<th>8000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLMF</td>
<td>0.97</td>
<td>0.92</td>
<td>0.88</td>
<td>0.85</td>
<td>0.83</td>
<td>0.83</td>
</tr>
<tr>
<td>LSF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

MF = LMF x RSMEF x LLMF x LSF
MF = Maintenance Factor
LMF = Luminaire Maintenance Factor
RSMEF = Rooms Surface Maintenance Factor
LLMF = Lamp Lumens Maintenance Factor
LSF = Lamp Survival Factor
P = Room Pute
C = Room Clean
N = Room Normal
D = Room Dirty

### Illuminance E₀ (lx)

Specifications:
Number of luminaires n > 5
Wall height (m) 3
TC-0 26W G24d-3 1800lm

<table>
<thead>
<tr>
<th>Offset from wall (m)</th>
<th>0.50</th>
<th>1.00</th>
<th>1.50</th>
<th>2.00</th>
<th>2.50</th>
<th>3.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire spacing (m)</td>
<td>0.50</td>
<td>0.90</td>
<td>1.20</td>
<td>1.20</td>
<td>1.20</td>
<td>1.20</td>
</tr>
<tr>
<td>0.250</td>
<td>132</td>
<td>177</td>
<td>117</td>
<td>74</td>
<td>44</td>
<td>34</td>
</tr>
<tr>
<td>0.500</td>
<td>435</td>
<td>480</td>
<td>348</td>
<td>332</td>
<td>156</td>
<td>167</td>
</tr>
<tr>
<td>0.750</td>
<td>672</td>
<td>675</td>
<td>463</td>
<td>496</td>
<td>284</td>
<td>311</td>
</tr>
<tr>
<td>1.000</td>
<td>601</td>
<td>658</td>
<td>437</td>
<td>507</td>
<td>344</td>
<td>380</td>
</tr>
<tr>
<td>1.250</td>
<td>521</td>
<td>556</td>
<td>375</td>
<td>446</td>
<td>346</td>
<td>379</td>
</tr>
<tr>
<td>1.500</td>
<td>431</td>
<td>443</td>
<td>311</td>
<td>361</td>
<td>317</td>
<td>344</td>
</tr>
<tr>
<td>1.750</td>
<td>348</td>
<td>347</td>
<td>259</td>
<td>286</td>
<td>280</td>
<td>297</td>
</tr>
<tr>
<td>2.000</td>
<td>279</td>
<td>276</td>
<td>215</td>
<td>228</td>
<td>242</td>
<td>249</td>
</tr>
<tr>
<td>2.250</td>
<td>223</td>
<td>211</td>
<td>178</td>
<td>183</td>
<td>207</td>
<td>207</td>
</tr>
<tr>
<td>2.500</td>
<td>179</td>
<td>178</td>
<td>147</td>
<td>150</td>
<td>175</td>
<td>174</td>
</tr>
<tr>
<td>2.750</td>
<td>147</td>
<td>144</td>
<td>122</td>
<td>124</td>
<td>148</td>
<td>147</td>
</tr>
</tbody>
</table>
Lightcast Wallwasher

Accessories

83816.000
DALI switching actuator, double, 16A.
Two voltage-free contacts for switching ohmic, inductive and
capactive loads max. 16A.
DALI interface with two indepen-
dent addresses.
Mounting on DIN rail.
Weight 0.21kg

83777.000
Mounting ring
Metal, white powder-coated. For
flush-mounting installation in
plasterboard ceilings.

83990.000
Concrete housing
Metal, powder-coated.
Recommended aggregate grain size
of the concrete is 0-4mm.
Weight 5.20kg

82950.000
Mounting plate for panelled
ceilings
Metal, white (RAL9002) pow-
der-coated. Individual design of
mounting plates according to
ceiling type and luminaire. Quote
ceiling type and dimensions

83980.000
Cover ring
Metal, white. For covering the gap
where ceiling cut-outs are too big.
Inner and outer diameter to be
specified when placing order.

83955.000
Plaster ring
Metal, white.
Height 20mm.
**Type:** B3  
**Lamp:** (2)CF26W/841

---

**LC Downlight**

for compact fluorescent lamps

---

22226.023 Reflector silver  
2xCFM 26W G24q-3 1800lm  
Eco

**Product description:**

Housing: cast aluminum, designed as heat sink.  
Mounting ring: cast aluminum, white (RAL9002) powder-coated.  
4-point support and screw tightening for fixing to mounting plate.  
Electronic control gear 120V/277V, 60Hz, class P inside cast housing.  
Mounting plate for preinstallation with junction box for through-wiring. Snap-in plug for connection between junction box and luminaire.  
Low brightness reflector: aluminum, specular anodized. Cut-off angle 30° from horizontal.  
Diffuser as lamp cover: plastic, translucent, for lamp replacement removable without tools.  
Type Non IC luminaire.  
Insulation materials must be kept away from the luminaire by a minimum of 3”. Suitable for damp location. Removal of reflector allows access to junction box from below.  
Max. ceiling thickness 2/4”.  
Weight 9.26lbs / 4.20kg

---

**ERCO Lighting, Inc.**  
160 Raritan Center Parkway  
Suite 10  
Edison, NJ 08837  
USA  
Tel: +1 732 225 8856  
Fax: +1 732 225 9857  
infous@erco.com

**Technical Region:** 120V/277V, 60Hz  
**Edition:** December 21, 2006  
**Please download latest version from:** [www.erco.com/22226.023]
ERCO

LC Downlight
Planning Data

22252033
CFM 26W GX24q-3 1800lm
Connected load
P: 52 W
Connected load per 10fc
P*: 0.4 W/ft²
Number of luminaires per 10fc
n*: 7.0 1/1000 ft²

22252033
CFM 26W GX24q-3 1800lm
Number of luminaires per 1000 ft² for
10fc 20fc 30fc 50fc
7 14 22 36

22252033
CFM 26W GX24q-3 1800lm
Module (ft²) 4x6 6x6 6x8 8x8
Illuminance (fc) 59 40 30 22

Correction table
Ceiling 0.70 0.70 0.70 0.50 0
Wall 0.70 0.50 0.20 0.20 0
Floor 0.50 0.20 0.20 0.10 0

k 0.6 77 58 49 49 45
k 1.0 100 77 69 67 63
k 1.5 116 91 84 81 77
k 2.5 129 100 95 90 86
k 3.0 133 103 99 93 89
**Lamp Information**

CFM 26W GX24q-3 1800lm

**Note:** Photometric data may change when using different lamps. These guide values are based on 100ft ceiling height in a square room of 1000ft² and mean reflectances (ceiling 70%, walls 50% and floor 20%). Other room shapes or reflectances should be converted accordingly. The values include the light loss factor of 0.8.

### Coefficients of Utilisation

**Reflectances**

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Wall</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Floor</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Room Cavity Ratio</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Candlepower distribution

<table>
<thead>
<tr>
<th>Vertical Angle</th>
<th>Candela</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°-45°</td>
<td>939</td>
</tr>
<tr>
<td>0°</td>
<td>911</td>
</tr>
<tr>
<td>10°</td>
<td>896</td>
</tr>
<tr>
<td>20°</td>
<td>867</td>
</tr>
<tr>
<td>30°</td>
<td>819</td>
</tr>
<tr>
<td>40°</td>
<td>622</td>
</tr>
<tr>
<td>50°</td>
<td>347</td>
</tr>
<tr>
<td>60°</td>
<td>4</td>
</tr>
<tr>
<td>70°</td>
<td>0</td>
</tr>
<tr>
<td>80°</td>
<td>0</td>
</tr>
<tr>
<td>90°</td>
<td>0</td>
</tr>
</tbody>
</table>

### Zonal Lumen Summary

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%Lamp</th>
<th>%Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10°</td>
<td>91</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>20°</td>
<td>365</td>
<td>10</td>
<td>21</td>
</tr>
<tr>
<td>30°</td>
<td>778</td>
<td>22</td>
<td>44</td>
</tr>
<tr>
<td>40°</td>
<td>1439</td>
<td>34</td>
<td>70</td>
</tr>
<tr>
<td>50°</td>
<td>1610</td>
<td>45</td>
<td>91</td>
</tr>
<tr>
<td>60°</td>
<td>1762</td>
<td>49</td>
<td>100</td>
</tr>
<tr>
<td>70°</td>
<td>1762</td>
<td>49</td>
<td>100</td>
</tr>
<tr>
<td>80°</td>
<td>1762</td>
<td>49</td>
<td>100</td>
</tr>
<tr>
<td>90°</td>
<td>1762</td>
<td>49</td>
<td>100</td>
</tr>
</tbody>
</table>

### Luminance Data

<table>
<thead>
<tr>
<th>Vertical Angle</th>
<th>Foottolamberts</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°-45°</td>
<td>939</td>
</tr>
<tr>
<td>45°</td>
<td>7995</td>
</tr>
<tr>
<td>50°</td>
<td>7995</td>
</tr>
<tr>
<td>55°</td>
<td>7995</td>
</tr>
<tr>
<td>60°</td>
<td>7995</td>
</tr>
<tr>
<td>65°</td>
<td>7995</td>
</tr>
<tr>
<td>70°</td>
<td>7995</td>
</tr>
<tr>
<td>75°</td>
<td>7995</td>
</tr>
<tr>
<td>80°</td>
<td>7995</td>
</tr>
<tr>
<td>85°</td>
<td>7995</td>
</tr>
<tr>
<td>90°</td>
<td>7995</td>
</tr>
</tbody>
</table>

---

LC Downlight
22129.023
Type: **B4**

Lamp: (1)CF26W/841

**Dimensions and Lamps**

<table>
<thead>
<tr>
<th>Number</th>
<th>A (Depth)</th>
<th>B (Aperture)</th>
<th>C (Width)</th>
<th>D (Length)</th>
<th>Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>P905</td>
<td>9 1/2&quot;</td>
<td>6&quot;</td>
<td>11 1/4&quot;</td>
<td>13 1/2&quot;</td>
<td>26W or 32W Triple Tube</td>
</tr>
<tr>
<td>P915</td>
<td>10 3/4&quot;</td>
<td>8 1/2&quot;</td>
<td>11 1/4&quot;</td>
<td>13 1/2&quot;</td>
<td>40W or 50W Triple Tube</td>
</tr>
</tbody>
</table>

* Recess depth increases to 12 1/2" with EM and DM accessories.
** For proper focal position for 26W lamps, add 269 to catalog number.

**Matching Units**

- Medium beam downlight: Page P51
- Medium wide beam downlight: Page P52
- Wall washers: Pages P61, P62

**Click for link to pages in blue.**

**Optics and Applications**

Full circle kicker reflectors direct a uniform wash light to adjacent walls. The pattern is free from spikes, illuminations or shadows and features wide lateral distribution. The downlight component is uniform with a soft edge to blend with nearby units. Use in low to medium height ceilings.

**Design Features**

Steel housings protect the reflectors which are joined to each other for predictable performance. The turn and lock socket prevents the lamp from falling if it is not properly engaged. It is a dependable fail safe mechanism to prevent injury and litigation. Cone and window assembly may be rotated 360° after installation. Vented air flow design assures cool fixture temperature for optimal lamp performance. Maximum ceiling thickness 2". Ballast and lamp service from below.

**Finish**

Specular clear Alzak cones are standard. Optional colors and Softglo® finishes are available. Housings and structural parts are painted optical matte black to suppress stray light leaks. Steel parts are phosphate conditioned for corrosion resistance before painting.

**Ballasts**

Fully electronic, microprocessor controlled with variable starting current for insrush protection to assure rated lamp life. Input voltage ranges from 120V through 277V. Power factor .98, starting temperature 9° F (-16° C), THD < 10%. Pre-heat start < 1.0 second. End of lamp life protection. Rated for > 50,000 starts.

**General**

Fixtures are pre-wired, UL and C-UL listed for eight wire 75°C branch circuit wiring. Union made IEEE. Luminare Efficiency Ratings (LER) do not apply to wall washers.

**Accessories**

- G Gold cone.
- R2 26" support rails.
- Mocha cone.
- R6 52" support rails.
- Graphite cone.
- WT White trim flange.
- Titanium cone.
- WHT White complete trim.
- Wheat cone.
- Y347 347 volt ballast.
- Pewter cone.
- F Fuse.
- Bronze cone.
- Z

**EM**

Emergency power includes integral charger light and test switch visible through aperture. Single lamp operation for 90 minutes. Specify volts.

**WRL**

Wallage restriction label, specify wallage.

**L**

Limited wall wash.

**D**

Double wall wash.

**C**

250° corner wall wash.
**P63** P905 P915

### Candlepower Distribution Curves

**Downlight**

**Wall Washer**

---

**Multiple Units Footcandles**

<table>
<thead>
<tr>
<th>From Ceiling</th>
<th>2' from wall</th>
<th>3' from wall</th>
<th>4' from wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centers</td>
<td>2 Centers</td>
<td>3 Centers</td>
<td>4 Centers</td>
</tr>
<tr>
<td>CL</td>
<td>Mid</td>
<td>CL</td>
<td>Mid</td>
</tr>
<tr>
<td>1'</td>
<td>26</td>
<td>20</td>
<td>19</td>
</tr>
<tr>
<td>2'</td>
<td>48</td>
<td>38</td>
<td>27</td>
</tr>
<tr>
<td>3'</td>
<td>43</td>
<td>31</td>
<td>22</td>
</tr>
<tr>
<td>4'</td>
<td>32</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>5'</td>
<td>24</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>6'</td>
<td>18</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>7'</td>
<td>14</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>8'</td>
<td>11</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>10'</td>
<td>7</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>12'</td>
<td>4</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

---

**P905 One 32W Philips Triple Tube**

**P915 One 42W Osram Sylvania x.85**

---

### Notes

1. Data by IES methods. Compact fluorescent data vary due to lamp brightness differences, power input, burning position, ambient temperature and ballast characteristics. A modification factor should be applied.

2. Above data measure output of all washers only. No contribution from adjacent downlights or ceiling, floor or wall reflectance is included. Total illumination on the wall will increase with the contribution from other sources.

3. Data are cosine corrected to the plane of the wall. Uncorrected data would be substantially higher and depend upon the angle of incidence to the wall which varies with the mounting distance from the wall.

4. Kurt Versen wall washers are designed to minimize hard shadow lines at the ceiling. Light intensity increases gradually to the maximum area, just above eye level. The field is uniform, devoid of hot spots, striations and tableaux.

5. If colored lenses are required, only the downlight cone will be tinted. The reflector is always clear Azalux for maximum output and true color rendition.

6. Specular cone multipliers: Use for downlight and brightness data only: Gold x .93, Wheat x .89, Perler x .81, Mocha x .79, Graphite x .76, Titanium x .76, Bronza x .73.

7. Softglow® cone multipliers: Use for downlight and brightness data only: Clear x .98, Gold x .90, Wheat x .89, Perler x .74, Mocha x .77, Graphite x .72, Titanium x .72, Bronza x .70.

8. Brightness data from the Average Luminance Method are accurate for small aperture downlights. They are theoretical calculations derived for large surfaces such as troffers. For a complete discussion refer to section Z brochure 21.

---

### Brightness

<table>
<thead>
<tr>
<th>Number Lamps</th>
<th>85°</th>
<th>75°</th>
<th>65°</th>
<th>55°</th>
<th>45°</th>
</tr>
</thead>
<tbody>
<tr>
<td>P905 One 32W Philips Triple Tube</td>
<td>9</td>
<td>16</td>
<td>42</td>
<td>2748</td>
<td>11484</td>
</tr>
<tr>
<td>One 32W Osram Sylvania</td>
<td>11</td>
<td>27</td>
<td>55</td>
<td>6727</td>
<td>13651</td>
</tr>
<tr>
<td>One 42W Philips Triple Tube</td>
<td>11</td>
<td>23</td>
<td>57</td>
<td>3685</td>
<td>15394</td>
</tr>
<tr>
<td>One 42W Osram Sylvania</td>
<td>12</td>
<td>24</td>
<td>69</td>
<td>7376</td>
<td>14970</td>
</tr>
</tbody>
</table>

Data in footcandles; Photometric readings, Maximum Brightness Method. See note 8.

---

Kurt Versen Company, Westwood, New Jersey
LC Downlight
for metal halide lamps

Type: C1
Lamp: (1)MH39W/830

81022.023 Reflector silver
T6 39W G12 3400lm
E13

Product description
Suitable for wet location (IP65): dust-proof and water jet-proof. Weight 9.26 lbs / 4.20 kg

ERCO Lighting, Inc.
160 Ranfin Center Parkway
Suite 10
Edison, NJ 08817
USA
Tel.: +1 732 215 8856
Fax: +1 732 215 8857
info.us@erco.com

Technische Angaben
Edition: Dezember 2005
Bitte downloaden Sie die neueste Version von
www.erco.com/Artikelnummer

1/1
**Type:** C2  
**Lamp:** (1)CF18W/830

**ERCO Lightcast Downlight**  
for compact fluorescent lamps

- **10229/XX: Reflector silver**  
- **TC-TEL 18W GX24q-2 1150lm**  
- **ECG**

**Product description**

Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw-tightening. Side-mounted control gear plastic; black.  
Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.  
Diffuser as lamp cover: plastic, translucent.  
Screw-fastened cover ring with safety glass; corrosion-resistant, cast aluminium. Ne-rinse surface treatment. Silver double powder-coated. To be removed together with darklight reflector for lamp replacement.  
Protection mode: IP65: dust-proof and water-proof.  
Weight: 2.40kg

---

**Technical Region: 230V/50Hz**

Edition: December 16, 2005

Please download the current version from:  
www.erco.com/1029.000
## ERCO

### Lightcast Downlight

**Planning data**

<table>
<thead>
<tr>
<th>Cleaning (a)</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient conditions</td>
<td>P</td>
<td>C</td>
<td>N</td>
</tr>
<tr>
<td>LMF</td>
<td>0.98</td>
<td>0.94</td>
<td>0.90</td>
</tr>
<tr>
<td>RSMF</td>
<td>0.95</td>
<td>0.98</td>
<td>0.96</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours of operation (h)</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>6000</th>
<th>8000</th>
<th>10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLMF</td>
<td>0.97</td>
<td>0.92</td>
<td>0.88</td>
<td>0.85</td>
<td>0.83</td>
<td>0.83</td>
</tr>
<tr>
<td>LSF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

- MF: Maintenance Factor
- LMF: Luminaire Maintenance Factor
- RSMF: Room Surface Maintenance Factor
- LLMF: Lamp Luminous Maintenance Factor
- LSF: Lamp Survival Factor
- P: Room pure
- C: Room clean
- N: Room normal
- D: Room dirty
Bysted provides downward illumination. The lower shades are painted white on the inside, to optimize the reflected light and creates a distinct circular pattern of light on the ground. Bysted has a ruggedness that makes it suitable for use in public areas. The Cor-Ten steel and cast iron will oxidize with a thin layer of uniform rust.

**Finish**
Cor-Ten steel, raw.

**Material**
Housing: Die cast iron. Post: Cor-Ten steel.
Base plate: Cor-Ten steel.

**Mounting**
Base plate: Mounted to a concrete base with 4 anchor bolts. Base plate dimension: 120" dia.

**Weight**
Max. 94 lbs.

**Label**
cUL, Wet location. IEBW.

---

**Specification**

1. **Product code**
   BYS

2. **Light source**
   - 100W HPS/ED-17 medium
   - 100W HPS/ED-17 medium
   - 100W HPS/ED-17 medium
   - 100W HPS/ED-17 medium

3. **Voltage**
   - 120V/277V
   - 120V

4. **Finish**
   COR-TEN

**Specification notes:**
- HID variants are provided with one 120/277V F-can style ballast.
- Indicative variant is only available in 120V.

**Info notes:**
- Cor-Ten steel contains copper and carbon steel. After weathering, a thin uniform layer of rust appears and acts to self-protect the surface from further corrosion thus eliminating the need for future maintenance. The process of oxidation causes the surface to bleed. Care must be taken to install the basted fixture in a drainage pit or in gravel to prevent surface staining. II. The comparable EU version has the following application: Ingress Protection Code: IP44.
Type: C4
Lamp: (1)MH50W/830

Die cast aluminum construction for corrosion resistance.
Tool-less access and removal of the reflector, lamp and ballast.
Type 2, 3, 4 and 5 full cutoff, horizontal reflectors.
Type 3 and type 5 vertical lamp cutoff reflectors.
Asymmetric and symmetric indirect, cutoff optical system.
60 to 175 watts HID including T-6 CDM lamps and electronic ballasts for metal halide lamps.
Separate die cast aluminum ballast module for cooler operation and extended component life.
Powder coat finish in ten standard colors with a poly-chrome primer.
Slips over a 4 inch tenon for arm or pole mounting.

Architectural Area Lighting
14240 Artesia Blvd / La Mirada, CA 90638
714.984.2700 / fax 714.984.0022 / www.aal.net
Design patents. Copyright 2005.
## Providence™

<table>
<thead>
<tr>
<th>FIXTURE</th>
<th>LAMP/BALLAST</th>
<th>COLOR</th>
<th>OPTIONS</th>
<th>DECORATIVE ARMS</th>
<th>POLE/BASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROV-H2</td>
<td>type 2 horizontal reflector, flat tempered clear glass lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-H3</td>
<td>type 3 horizontal reflector, flat tempered clear glass lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-H4</td>
<td>type 4 horizontal reflector, flat tempered clear glass lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-H5</td>
<td>type 5 horizontal reflector, flat tempered clear glass lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-V3</td>
<td>type 3 vertical reflector, tempered clear or glass lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-V6</td>
<td>type 5 vertical reflector, tempered clear or glass lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-INDA</td>
<td>asymmetric indirect, indirect reflective optical system, metal halide lamps only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROV-INDS</td>
<td>symmetric indirect, indirect reflective optical system, metal halide lamps only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 2 Lamp/Ballast

- **50MH**: 50 watt metal halide 120/277 volt ballast. Use a medium base, clear ED-17 lamp.
- **50MHEB**: 50 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp.
- **70MH**: 70 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamp.
- **70MHEB**: 70 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp.
- **70MHT6**: 70 watt metal halide 120/277 volt ballast. Use a G12 base, clear T-6 ceramic lamp.
- **70MHT6EB**: 70 watt electronic metal halide ballast, 120 thru 277 volt. Use a G12 base, clear T-6 ceramic lamp.
- **100MH**: 100 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- **150MH**: 150 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- **150MHEB**: 150 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp.
- **150MHT6**: 150 watt metal halide 120/208/240/277 volt ballast. Use a G12 base, T-6 ceramic MH lamp.
- **150MHT6EB**: 150 watt electronic metal halide ballast, 120 thru 277 volt. Use a G12 base, T-6 ceramic MH lamp.
- **175MH**: 175 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- **70HPS**: 70 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- **100HPS**: 100 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.
- **150HPS**: 150 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps.

All HID ballasts are multi-tap, prewired for 277 volts. Lamps not included.

- **CF**: Electronic transformer for 26, 32 or 42 watt compact fluorescent lamp 120 through 277 volt.

  For Horizontal reflectors only.

### 3 Color

- **WHT**: White
- **LQY**: Light Grey
- **MAL**: Matte Aluminum
- **MDG**: Medium Grey
- **ATG**: Antique Green
- **VGR**: Verde Green
- **WRZ**: Weathered Bronze
- **DGN**: Dark Green
- **CRT**: Corten
- **BRM**: Metallic Bronze
- **DBZ**: Dark Bronze
- **BLK**: Black
- **MTB**: Matte Black
- **RAL #**: CUSTOM

---

Architectural Area Lighting
14240 Artesia Blvd / La Mirada, CA 90638
714.994.2700 / fax 714.994.0522 / www.aal.net
Design patents, Copyright 2001.
Options

- **SPK**
  - Decorative cast aluminum spikes on the top and bottom of the four vertical struts.

- **PFN**
  - Cast aluminum finial painted a brass color.

- **PCA-T**
  - Rotatable photocell housing.
  - The housing slips over a 4"/100mm o.d. pole, a fixture slips over the 4"/100mm o.d. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens.
  - Photocell by others.

Egress and Emergency Options

- **HSS**
  - HOUSE SIDE SHIELD
  - For horizontal and vertical reflector models. House slide shield to cut off light behind the pole and shield the lamp from view.

- **LDL**
  - LOW BRIGHTNESS LENS
  - Fixed, flat tempered glass lens has a lightly diffused finish to minimize the lamp and reflector brightness. For horizontal reflector models.

- **QRS**
  - RESTRIKE CONTROLLER

- **QL**
  - HALOGEN LAMP CIRCUIT
  - Socket for a T-4 mini-candelabra halogen lamp, maximum 150 watt. Must be field wired to a separate 120 volt circuit. Not available for indirect models.

Architectural Area Lighting
14240 Artesia Blvd / La Mirada, CA 90638
714.964.2700 / fax 714.964.0522 / www.aal.net
Design elements, Copyright 2005.
Specifications

Weight: 29lbs, EPA: 1.30

31.5 in / 800 mm

19.7 in / 475 mm

REFLECTOR MODELS - REFLECTOR/LAMP
The upper lamp housing shall be die-cast aluminum. The internal reflector module is sealed from the outer housing with a molded silicone gasket. The tempered glass lens shall be sealed to the housing with a silicone gasket. One stainless steel latch shall release the door to allow access to the lamp. The reflector module shall be composed of faceted, specular and semi specular anodized aluminum panels rigidly attached to a die-cast aluminum housing. The reflector shall be removable without tools by lifting it out of the four spring loaded posts. The reflector tray shall be rotatable on 90° centers for orienting the light distribution. The horizontal and vertical lamp reflectors shall meet ANSI-IES standards for full cutoff reflector systems.

REFLECTOR MODELS - BALLAST
The lower ballast housing shall be die-cast aluminum. The tool-less ballast access for servicing is accomplished by a quarter turn motion of the top cover. The ballast shall be mounted on a prewired tray with a quick disconnect plug attached to the underside of the cover. HID ballasts are high power factor, rated for -30°F starting. Electronic ballasts for metal halide lamps are sound rated A. Sockets are medium base for ED-17 lamps, G12 for use with T6 lamps. All sockets are pulse rated porcelain. Ballasts are multi-tap, wired at the factory for 277 volts. Compact fluorescent transformers shall accept 120 to 277 volt input and rated for 0°F starting.

INDIRECT MODELS - LOWER LAMP MODULE
The lower housing shall contain the lamp module. The cover shall be die-cast aluminum with a tempered glass lens. The lamp shall be accessed by turning the lamp housing cover a quarter turn. The reflector shall be polished, anodized aluminum with an extremely narrow beam for directing the light to the upper reflector. Sockets are medium base for ED-17 lamps or G12 for use with T6 lamps. All sockets are pulse rated porcelain.

INDIRECT MODELS - UPPER REFLECTOR/BALLAST
The die cast aluminum upper housing shall contain the ballast assembly and the indirect reflector. The tool-less ballast access for servicing is accomplished single flip up latch and hinged top cover. The ballast shall be mounted on a prewired tray with a quick disconnect plug. The HID ballasts are high power factor, rated for -30°F starting. Ballasts are multi-tap, wired at the factory for 277 volts. The indirect reflector is mounted to the underside of the upper housing. The reflector shall be die cast aluminum, finished in a high reflectance white. The indirect reflector models shall be IES classified as cutoff with less than 1% lumen output above 90 degrees.

INSTALLATION & MOUNTING
The Providence series shall be factory supplied as a complete, prewired assembly. The fixture shall slip over a 4.7100mm open top pole or arm and be secured and leveled with three stainless steel set screws.

FINISH
Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermostatic super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION
The fixture shall be listed with ETL for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 no.250. IP=55.
Type: C5
Lamp: (1) MH39W/830

Grasshopper Projector
with cantilever for metal halide lamps

Product description
Cantilever: corrosion-resistant aluminum tube.
Electronic control gear 120V, 60Hz. 2 cable entries. Through-wiring possible. 3-pole terminal block.
Spheroid reflector: spot–aluminum, silver, specular anodized. Sculpture lens for uniform illumination of close proximity areas.
Compact lamp head with improved lamp screening for optimum visual comfort. Corrosion-resistant cast aluminum, double powder-coated.
Suitable for wet location (IP55); dust-proof and water jet-proof.
Weight 7.83lbs / 3.55kg
Grasshopper Projector

Accessories

33972.000
Ground spike
Metal, hot-dip galvanized.
Cable entry.

34990.000
Spacer
for cables mounted on top of plaster.
Corrosion-resistant, cast aluminium. No-Rinse surface treatment. Graphit m double powder coated.
Weight 0.35 lbs / 0.16 g.
Type: D1
Lamp: (1)CF18W/830
Scoop Surface Mount Sconce

Specifications:
• 18 gauge formed cold rolled steel housing
• CSA compliant
• Integral lens
• Saliently protected
• Universal mounting holes and direct access to a standard 4” octagonal junction box.
• UL listed for damp locations. (Not recommended for exterior use.)

Design modification right handed.

MC = Mounting Center
Hammered Brown Resin Table Lamp

sale
$45.00
List price: $49.99
You Save: $4.99 (10%)
LightSaver® LCO-203 ON/OFF Switching

Watt Stopper/Legrand’s LightSaver LCO-203 provides automatic ON/OFF switching control for fluorescent and HID fixtures. It is an open loop controller providing up to three zones of control from a single photocell.

Operation

The LCO controller is part of a system that includes the LS-290C photocell and the BT-203 Power Pack. Each of the LCO controller’s three channels connects directly with its own dedicated relay in the power pack. The photocell measures daylight and transmits these data to the LCO controller. When daylight is adequate, the LCO controller switches lighting off. When daylight diminishes below the desired setpoint, the LCO controller switches lighting back on. The ON and OFF delays for each channel are individually adjustable. The LCO controller integrates with occupancy sensors as well as an optional wall switch for manual overrides.

Features

- Simplified setup and calibration
- Optional wall switch (LS-4C) provides ON/OFF control so users can adjust lighting
- Five individually adjustable parameters for each channel: ON delay, OFF delay, deadband, setpoint, load shed setpoint
- Menu-driven, pushbutton programming without special tools
- Automatic internal calculation of daylight contribution for each channel for simplified setup
- DIN rail mounting
- Suitable for mounting in low voltage section in control panel
- California Title 24-2005 compliant

Applications

Spaces such as warehouses, storage areas, atriums, lobbies, and open office areas will benefit from use of the LCO controller.
LCO-203 Technical Information

Specifications
- Class 2 low voltage device
- Photocell range from 3 - 6,000 footcandles
- Setpoint range from 5-60 fc
- Programmable deadband from 10%-80%
- Adjustable ON delay from 5-60 seconds
- Adjustable OFF delay from 3-60 minutes
- Load shed setpoint from 5-60 fc
- 24VDC supply voltage provided by BT-203
- Dimensions: 3.5” x 2.81” x 2.5” (89mm x 71mm x 64mm) LxWxD
- UL and CUL listed; five year warranty

System Layout & Wiring

LCO Control Module
- Lamps (up to 3 zones)
- Zone 1
- Zone 2
- Zone 3

LightSaver®
- Timer
- Energy management system

Occupancy Sensor

Control Interlock

Catalog No. | Description | Voltage  | Channels |
--- | --- | --- | --- |
LCO-203 | ON/OFF switching control module | 24 VDC | three |
LS-290c | Photocell | | |
BT-203 | Power Pack | | |

Ordering Information

ON/OFF control system options:
- Product group: Switch
  - Catalog No. LS-4C: Wall Switch
- Enclosure
  - LS-E8: Screw-cover enclosure 8” x 8” x 4” (203.2mm x 203.2mm x 101.6mm)
  - LS-E12: Screw-cover enclosure 12” x 12” x 4” (304.8mm x 308.8mm x 101.6mm)
### WIRING PANEL SCHEDULE

**Panel: EH1**  
**Mains: MLO**  
**Amps: 400**  
**AIC: 25K**  
**Voltage: 480Y/277**  
**Wires: 4**  
**Phase: 3**  
**Mounting: Surface**  
**Loc: Main Electrical Room**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>P</th>
<th>AMP</th>
<th>BRANCH CIRCUIT</th>
<th>CIR</th>
<th>DESCRIPTION</th>
<th>P</th>
<th>AMP</th>
<th>BRANCH CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spare</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
</tr>
<tr>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
<td>4</td>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
</tr>
<tr>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
<td>6</td>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
</tr>
<tr>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
<td>8</td>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
</tr>
<tr>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
<td>10</td>
<td>Lighting</td>
<td>1</td>
<td>20*</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
</tr>
<tr>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
<td>12</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Lighting</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRND</td>
<td>14</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>16</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>18</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>20</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>22</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>24</td>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>26</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>28</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Spare</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>30</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Xfmr/Panel El1</td>
<td>3</td>
<td>45</td>
<td>3/4&quot;C.W/3#8+1#10GRND</td>
<td>34</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>36</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>38</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Panel Emp</td>
<td>1</td>
<td>225</td>
<td>2-1/2&quot;C.W/3#4/0+1#4/0GRND</td>
<td>40</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>42</td>
<td>Space</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Connected Load</td>
<td>16731 VA</td>
<td>Total Phase A</td>
<td>7750 VA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demand Load</td>
<td>20914 VA</td>
<td>Total Phase B</td>
<td>4261 VA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25% Growth</td>
<td>28142 VA</td>
<td>Total Phase C</td>
<td>4720 VA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Wiring Panel Schedule

<table>
<thead>
<tr>
<th>CIR</th>
<th>Description</th>
<th>P</th>
<th>AMP</th>
<th>Branch Circuit</th>
<th>CIR</th>
<th>Description</th>
<th>P</th>
<th>AMP</th>
<th>Branch Circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4”C.W/2#12+1#12GRND</td>
<td>2</td>
<td>GEN BLOCK HTR</td>
<td>2</td>
<td>20</td>
<td>3/4C.W/3#12+1#12GRND</td>
</tr>
<tr>
<td>3</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4”C.W/2#12+1#12GRND</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>LIGHTING</td>
<td>1</td>
<td>20*</td>
<td>3/4”C.W/2#12+1#12GRND</td>
<td>6</td>
<td>LIGHTING</td>
<td>1</td>
<td>20*</td>
<td>3/4”C.W/2#12+1#12GRND</td>
</tr>
<tr>
<td>7</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>8</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>10</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>12</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>14</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>16</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>18</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>20</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>22</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>23</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>24</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>26</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>27</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>28</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>29</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>30</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>31</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>32</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>33</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>34</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>35</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>36</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>38</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>39</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>40</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>41</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>42</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
</tbody>
</table>

**Connected Load**: 8500 VA  **Total Phase A**: 5600 VA  **Demand Load**: 10625 VA  **Total Phase B**: 3900 VA  **25% Growth**: 13282 VA  **Total Phase C**: 8500 VA
<table>
<thead>
<tr>
<th>CIR</th>
<th>DESCRIPTION</th>
<th>P</th>
<th>AMP</th>
<th>BRANCH CIRCUIT</th>
<th>CIR</th>
<th>DESCRIPTION</th>
<th>P</th>
<th>AMP</th>
<th>BRANCH CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>2</td>
<td>LIGHTING</td>
<td>1</td>
<td>20**</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>3</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>4</td>
<td>LIGHTING</td>
<td>1</td>
<td>20**</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>5</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>6</td>
<td>LIGHTING XFMR</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>7</td>
<td>FANS</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>8</td>
<td>LIGHTING XFMR</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>9</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>10</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>11</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>12</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>13</td>
<td>LIGHTING</td>
<td>1</td>
<td>20*</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>14</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>15</td>
<td>LIGHTING</td>
<td>1</td>
<td>20*</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>16</td>
<td>LIGHTING</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
</tr>
<tr>
<td>17</td>
<td>OUTDOOR DOWNLIGHT</td>
<td>1</td>
<td>20</td>
<td>3/4&quot;C.W/2#12+1#12GRD.</td>
<td>18</td>
<td>OUTDOOR POLE/BOLLARD</td>
<td>1</td>
<td>20</td>
<td>1.5&quot;C.W/2#8+1#10GRD.</td>
</tr>
<tr>
<td>19</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>20</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>22</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>23</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>24</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
<td>26</td>
<td>SPARE</td>
<td>1</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>27</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>28</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>29</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>30</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>31</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>32</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>33</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>34</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>35</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>36</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>38</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>39</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>40</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>41</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>42</td>
<td>SPACE</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**CONNECTED LOAD**: 12144 VA  
**TOTAL PHASE A**: 3172 VA  
**DEMAND LOAD**: 13905 VA  
**TOTAL PHASE B**: 4536 VA  
**25% GROWTH**: 17381 A  
**TOTAL PHASE C**: 4436 VA