



**LyteProfile downlights and wall washers** provide a perfect balance of functionality with glare control. The robust and versatile UniFrame frame-in kit makes changes and updates easy to manage and install. High optical efficiency reinforced with Accurender technology provides an optimum balance of performance and quality of light. Ideal for use in a variety of applications including open office, institutional, healthcare, and retail.

**Standard luminaire:** Complete luminaire = Frame + Engine + Trim + Accessories (optional)

**Flex install luminaire:** Complete luminaires = Engine (F) + Trim + Accessories (optional)

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Frame

Example: 6RN

| Series                  | Aperture | Installation                | Options  |
|-------------------------|----------|-----------------------------|--|
| <b>6</b>                | <b>R</b> |                             |  |
| 6 Uniframe<br>6" Non-IC | R Round  | N New construction (Non-IC) | — Universal 120/277/347V<br><b>LC</b> Chicago Plenum<br><b>EM6</b> Emergency, 6W Self-Test/Self-Diagnostic (not available for BAC) <sup>1</sup><br><b>BAC</b> Meets the requirements of the Buy American Act of 1933 (BAA) <sup>13,14</sup><br><b>BABAF</b> Meets the requirements of the Build America Buy America Act for projects funded through FHWA that are obligated before October 1, 2026, and meets the Buy America preferences for FTA <sup>13,14</sup> |
|                         |          | R Remodeler (Non-IC)        | — Universal 120/277/347V   |
|                         |          | A AirSeal (IC)              | — Universal 120/277/347V   |

### Engine / Trim

Example: P6RDL20935WCDZ10U

| Series            | Style  | Lumen                  | CRI/CCT  | Beam  | Reflector  | Flange   |
|-------------------|--|------------------------|--|---|--|--|
| <b>P6R</b>        |  |                        |  |   |  |  |
| P6R               | DL Downlight<br>LW Lensed Wall Wash <sup>2</sup><br>SL Shower light <sup>3</sup> (non-conductive lens) | 10 1000lm              | 927 90 CRI / 2700K                             | N Narrow<br>M Medium<br>W Wide <sup>2,3</sup>     | CL Specular clear  | — White (matte)  |
|                   |  | 15 1500lm              | 930 90 CRI / 3000K                             |   | CC Comfort clear   | B Black (matte) <sup>8</sup>   |
|                   |  | 20 2000lm <sup>4</sup> | 935 90 CRI / 3500K                             |   | CD Comfort clear diffuse   | P Polished (matches aperture)<br>F Flangeless (requires CA6RFT) <sup>8</sup> |
|                   | 25 2500lm <sup>4</sup>   | 940 90 CRI / 4000K     | 9D2W 3000-1800K<br>(dim to warm) <sup>6</sup>  | WH White (matte)                                  | — White (matte)  |  |
|                   | 30 3000lm <sup>4</sup>   |                        |  | BK Black (matte)                                  | B Black (matte) <sup>8</sup>   |  |
|                   | 35 3500lm <sup>4</sup>   |                        | 96T 2700-6500K<br>(tunable white) <sup>7</sup> | WHAMF White<br>(gloss antimicrobial) <sup>8</sup> | F Flangeless (requires CA6RFT) <sup>8</sup>  |  |
|                   | 40 4000lm <sup>5</sup>   |                        |  |   | — White (gloss)  |  |
|                   | 45 4500lm <sup>5</sup>   |                        |  |   | F Flangeless (requires CA6RFT) <sup>8</sup>  |  |
|                   | 50 5000lm <sup>5</sup>   |                        |  |   |  |  |
| Dimming / Options |  |                        | Voltage  | Options   |  |  |
| Z10               | 0-10V 1%   |                        | U 120/277V                                     | —   | None   |  |
| Z10D20            | 0-10V 1% (dim to Off) (up to 3500lm)   |                        | 3 347V (Z10 only) (up to 3000lm)               | R   | Retrofit <sup>10</sup> (not compatible with IEM6)  |  |
| L1                | Lutron LDE1 EcoSystem 1%   |                        | U 120/277V                                     | F   | Flex install (no frame required) <sup>11</sup>   |  |
| RA                | Integral Interact Pro RF sensor (up to 3500lm) <sup>9</sup>  |                        |  | IEM6  | Trim mounted EM test switch (for DL style only)  |  |
| E                 | Forward & Reverse Phase (up to 3000lm)   |                        | 1 120V   | BAC   | Meets the requirements of the Buy American Act of 1933 (BAA) <sup>13,14</sup>  |  |
|                   |  |                        |  | BABAF   | Meets the requirements of the Build America Buy America Act for projects funded through FHWA that are obligated before October 1, 2026, and meets the Buy America preferences for FTA <sup>13,14</sup> |  |

### Accessories<sup>13</sup>

|           |  |
|-----------|--|
| SWCS      | New or remodel construction, integral RADIO or remote (recessed or surface) sensing with 0-10v luminaires. See <a href="#">SWCS spec sheet</a> . <sup>12</sup> |
| CAEM6     | Field installable Bodine BSL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V                                    |
| CA6RFT    | Mud-in ring for use in 6" round flangeless trim installations (ordered with a flangeless (F) light engine).  |
| CAEM6TSCT | Remote switch cover plate. Order with EM6 frame for remote mounted test switch.  |
| C6RVPWH   | IP65 rated vandal proof matte white accessory mounts onto flangeless light engines (F) and non-IC (N) frame only.  |
| 6RNSR     | 6" round/square non-IC frame with Flex (F) light engine (provides mechanical support for rough-in construction only, no junction box)                          |
| LCEM6     | Field installable Bodine BSL06 emergency battery pack (for Flex (F) light engine only, includes switch mounting plate)   |
| T347-75VA | 347:120V step-down transformer for non-IC (N) frame only (see page 2 for details)  |
| 7925      | 6" sloped ceiling adapter (refer to SCA spec sheet for slope options). Must order 6RN frame and flanged trim.  |

\*See page 2 for footnotes.

# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

### Footnotes

1. Emergency (EM6) frame is compatible with reflector mounted test switch when light engine is ordered with IEM6 (not compatible w/347V).
2. Lensed wall wash (LW) style only available with Wide (W) beam (2000lm max).
3. Shower light (SL) in only available with White (WH) reflector finish, and wide (W) beam. Not available with flangeless option.
4. Not available with AirSeal (A) frame.
5. Not available with AirSeal (A) frame. Available with CL, CC, and CD reflector finishes only.
6. Specify 9D2W with Z10U dimming only (up to 3000lm max). Not compatible with Z10D20 or 347V (3) options. Not available with wide (W) beam.
7. Specify 96T with Z10U or RAU dimming only (up to 2500lm max). Not compatible with Z10D20 or 347V (3) options. Not available with wide (W) beam.
8. Consult factory with ETO request for antimicrobial reflector finish (WHAMF) and black (B) flange for all styles, and flangeless (F) for LW style.
9. Linear driver profile. See dimensional data following. Specify only with non-IC (N) frame, not for use with LC or EM6 options.
10. Retrofits select legacy Lightolier luminaires (see pages 2 for details).
11. Flex install requires light engine & trim only (up to 4000lm only). Accessory frames available. Not compatible with standard frames and associated options. Not available with Interact (RA) dimming and IEM6 trim.
12. Requires IRT9015 IR remote and Interact Builder App for commissioning (requires above ceiling access).
13. BAA compliance requires that BAC option be selected for each of frame, engine/trim. BABA compliance requires that BABAF option be selected for each of frame, engine/trim. Frame and engine will be ordered/shipped together; trim will be ordered/shipped separately. Accessories (optional) are not currently BAA-compliant.
14. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Genlyte's products with a BAC option code designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. "BABAF" designates the product will meet the standards set by FHWA for BABA and FTA for Buy America. As noted, for FHWA BABA compliance, applicable projects must be funded by October 1, 2026.

### Features

#### Optics

- Provides a 60° cutoff (physical and reflected)
- Available in wide (85°), medium (65°), and narrow (55°) beam options.
- Spun and anodized reflectors available in specular (clear), semi-specular (comfort clear and diffuse finishes. Also available in white and black painted finishes.
- Consult factory for RAL finishes

#### Quality of light

- Color consistency: 2 SDCM
- 90 CRI minimum (Accrender)

### Construction (New Construction)

- Galvanized stamped steel for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13"-24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

Max ceiling thickness is 2" (51 mm).

### Patented install Mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid & hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
  - Easy upgrades
  - Technology changes
  - Repairs and troubleshooting

### Retrofit

- Easily updates legacy LyteProfile LED downlights to the latest technology. Includes light engine, trim, and driver mounted on cover plate that mounts to previous generations of LyteProfile LED luminaires. Order with R option code at end of light engine/trim catalog number.

### Dimming

- Advance 0-10v 1% (Z10) logarithmic curve is standard. Specify D20 for factory-set dim-to-off function (consult factory for linear dimming curve).
- Lutron LDE1 (L1) EcoSystem 1%
- Electronic low voltage (E) offers forward or reverse phase dimming
- Dim to Warm (D2W): changes CCT from 3000-1800K gradually as it dims. Use with Z10U dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K & 3000K, & ≤5SDCM at 1800K
- Tunable white (6T): 2700K to 6500K CCT. Use with Z10U or RAU dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K, 5000K, & 6500K CCT.

### Light engine

Quick connect power pack allow for easy installation and replacement from below ceiling with no need for additional wiring. This allows for:

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology.
- Lumen Maintenance: L80 at 60,000 hours.
- 347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installed step-down transformer accessory.

### Flex engine (F)

- Frame-optional engine suited for new construction, remodel, and retrofit applications.
- 6RNSR new construction frame accessory available as required to support ceiling construction.
- All wiring is done on the integral j-box to the engine.

### Emergency

Bodine BSL6 6W battery pack with self-test/diagnostic functionality. Factory or field mounted to frame.

- For trim with integral emergency test switch, order light engine with IEM6 option (ex: P6RDL20935WCDZ10UIEM6). DL style only.

- For remote ceiling mounted test switch, order standard light engine (ex: P6RDL20935WCDZ10U). Optional accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.
- Refer to Calculate-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.
- CEC Title 24 JA8 Certified.

### Options and Accessories

**Sloped ceilings:** Compatible with sloped ceiling adapters (see SCA spec sheet).

**Flangeless mud-in ring:** Use CA6RFT For use with flangless plaster installations.

**Field Installed Emergency:** Refer to Calculate-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

- **CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frames. Includes remote ceiling plate for test switch. To mount test switch to trim for new construction frame, order downlight light engine with IEM6 option code (e.g. P6RDL20935WCDZ10UIEM6).

**C6RVPWH:** includes machined aluminum ring painted white, gasketed for IP65 protection, and impact resistant polycarbonate lens (IK10). Locks in place with discrete setscrew (key included). Available also with antimicrobial finish (C6RVPWHAMF).

**CAEM6TSCP:** Ceiling cover plate for remote mounted EM6 test switch. 1/2" (25mm) hole, 4 3/8" (109mm) x 2 3/4" (69mm) rectangular. Includes two mounting screws. Required for lensed wall wash (LW) and shower light (SL) styles.

**T347-75VA:** Field installable 347:120V 75VA step-down transformer, attaches to knock out on frame junction box, for use with non-IC (N) or remodel (R) frames.

**SWCS:** Interact Ready System Bridge Accessory. Requires IRT9015 IR remote and Interact Pro App for commissioning. Refer to [SWCS spec sheet](#) for details.

# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

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### Performance & Construction

- Soft focus acrylic lens minimizes pixilated glare from LED source, shapes light beam to desired effect, mixes light sources for homogeneous color temperature, and mitigates color over angle deviations.
- Lumen Maintenance: L80 @ 60,000 hours.
- 347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installable step-down transformer accessory.

### Labels and Listings

- cULus listed for wet locations
- CCEA (frames with \*LC suffix)
- ENERGY STAR® certified (except Black finishes)
- RoHS certified
- Red List Declare label certified, ID SIG-0017. ([View full Declare label](#))

### Warranty



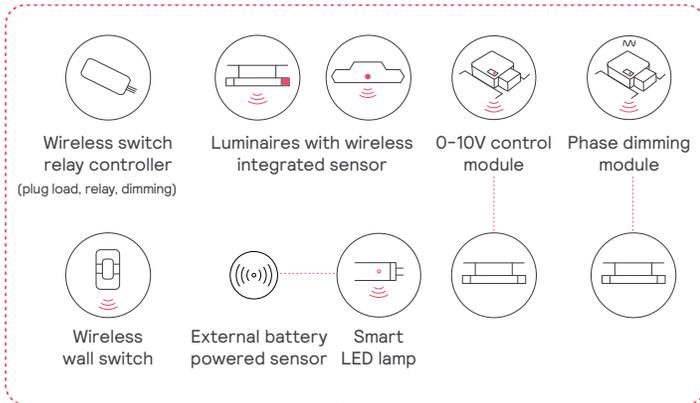
5 year limited warranty  
Visit [Signify.com/warranties](https://www.signify.com/warranties)  
for more information on Signify's  
standard 5-year limited warranty  
on complete luminaire systems.

# P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Signify  
interact

## Easy. Effective. Smart.



### Meet Interact

A smart, wireless luminaire level lighting control system (LLLC). A complete solution that combines modern and intuitive technologies for easy installation and specification.

- Works with or without gateway
- **No** IT
- **No** light point restrictions
- **Up to 75%** out of the box savings
- **Fast & easy**
- **Code & rebates** compliant

### Capabilities



Luminaire integrated occupancy and daylight sensing



BMS integration



Human-centric lighting



Connectivity & insights



Full Automation\*



Security

\*Grouping, zoning, dimming, high-end trimming, scenes, scheduling, manual controls

### Benefits



Up to **80%** installation savings<sup>1</sup>

Compared to installation costs of wired systems



Up to **5 min** faster setup time<sup>2</sup>

Compared to similar wireless systems



Less than **2 year** payback

Implement deep energy-saving strategies and claim utility rebates



**1.8x** more energy savings

Compared to conventional control systems



Up to **2x** utility rebates

Network Interact ready devices and get more utility rebates<sup>3</sup>

1. Versus legacy systems based on installer interviews
2. Based on installer analysis done by Signify for a typical multi-zone space
3. Utility programs across US

### Just lights and an App



1. Install the Interact ready fixtures with embedded smart sensor
2. Install the wireless wall switch
3. Configure your setup with the Interact App
4. Leverage the IRT9015 remote accessory to accelerate your setup process
5. Optionally add a gateway for insights and management

Learn more about Interact:

Interact includes an app, a web portal, and a comprehensive range of Interact ready wireless luminaires, lamps, retrofit kits, and control devices like switches and sensors that operate within the same system.



# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

### Controls Options\*

#### Interact radio node for Standalone, Gateway & Gateway + IoT tiers (RA)

RA sensor option is a connected radio node supporting wireless mesh connectivity.

Compatible with standalone and gateway modes of Interact.

#### Interact occupancy & daylight sensor for Standalone, Gateway & Gateway + IoT tiers (CS)

The CS sensor option is a connected sensor with built-in occupancy and daylight detection, along with wireless mesh connectivity.

Compatible with standalone and gateway modes of Interact.

#### Interact advanced sensor bundle for Gateway + IoT tier (SB)

SB sensor option offers occupancy and daylight sensing and supports advanced IoT capabilities, such as desk-level temperature and humidity monitoring, noise classification, and Bluetooth Low Energy (BLE) beacon functionality.

Setup requires a compatible gateway and internet connectivity.

With compatible gateway and software analytics, SB sensor option enables greater building efficiency, seamless system integration, and optimized space utilization through occupancy and environmental insights.

Interact for intelligent buildings sensor option codes across Genlyte product lines\*

|   | Sensor part # | Daybrite | Ledalite | Lightolier            |
|---|---------------|----------|----------|-----------------------|
| Zigbee + Bluetooth                                | SC100B        | RADIO    | RA       | RA                    |
| Zigbee + Bluetooth + Sensing                      | SC200B        | SWZCS    | CS       | SBA or SWCS accessory |
| Zigbee + Bluetooth + Sensing + Environmental data | SC1500        | IAOSB    | SB       | SBA or SWCS accessory |
| Zigbee + Highbay + Bluetooth + Sensing            | SNH210 IA     | SWZCSH   | -        | -                     |

# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash



### AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



**Standard CRI 80**  
Good color rendering and high efficacy



**Standard CRI 90**  
Better color rendering and low efficacy



**AccuRender**  
Best color rendering, color preference and high efficacy

#### Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightlier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

#### Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI<sup>1</sup>
- Helps meet Title 24 requirements

#### Show your true colors

High color rendering:

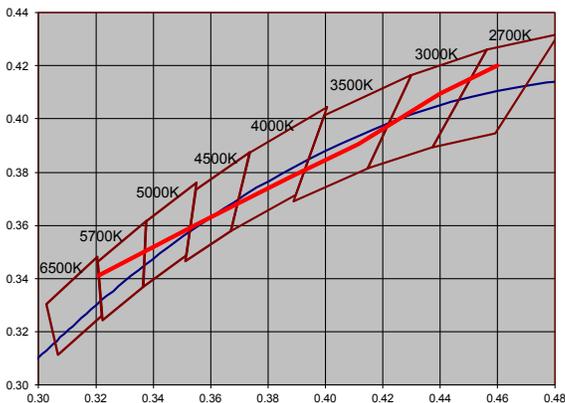
- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- $R_a$  up to 94 CRI
- $R_g$  up to 67 CRI
- $G_s$  up to 99 CRI
- $C_s$  up to 94 CRI
- $R_r$  up to 92 TM-30
- $R_{r,hl}$  up to 91 TM-30
- $R_g$  up to 100 TM-30
- $R_{cs,hl}$  up to -5% TM-30

#### Achieve color balance

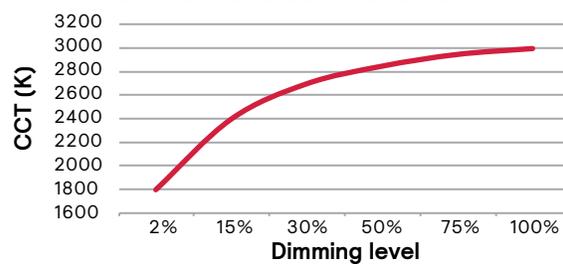
Best in class color consistency:

- Promote aesthetic harmony in your space with  $\leq 2$  SDCM

#### Tunable white binning chart



#### Dim-to-Warm: CCT vs Dimmed level



# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

### Electrical - Static White

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

| Product        | Input Volts (V) | Input Freq. (Hz) | Input Current (A) | LED Drive Current (A) | Input Power (W) | LED Power (W) | THD Factor @ Max Load |
|----------------|-----------------|------------------|-------------------|-----------------------|-----------------|---------------|-----------------------|
| P6RDL10_Z10U/3 | 120V            | 0.081A           | 0.23A             | 9.8W                  | 8.0W            | <10%          | >0.9                  |
|                | 277V            | 0.036A           | 0.23A             | 10.0W                 | 8.0W            | <20%          | >0.9                  |
|                | 347V            | 0.033A           | 0.23A             | 11.4W                 | 8.0W            | <30%          | >0.9                  |
| P6RDL15_Z10U/3 | 120V            | 0.121A           | 0.35A             | 14.5W                 | 12.1W           | <10%          | >0.9                  |
|                | 277V            | 0.053A           | 0.35A             | 14.6W                 | 12.1W           | <10%          | >0.9                  |
|                | 347V            | 0.048A           | 0.35A             | 16.6W                 | 12.1W           | <25%          | >0.9                  |
| P6RDL20_Z10U/3 | 120V            | 0.154A           | 0.45A             | 18.4W                 | 15.6W           | <10%          | >0.9                  |
|                | 277V            | 0.067A           | 0.45A             | 18.5W                 | 15.6W           | <10%          | >0.9                  |
|                | 347V            | 0.059A           | 0.45A             | 20.5W                 | 15.6W           | <20%          | >0.9                  |
| P6RDL25_Z10U/3 | 120V            | 0.195A           | 0.58A             | 23.4W                 | 19.9W           | <10%          | >0.9                  |
|                | 277V            | 0.085A           | 0.58A             | 23.5W                 | 19.9W           | <10%          | >0.9                  |
|                | 347V            | 0.072A           | 0.58A             | 24.9W                 | 19.9W           | <20%          | >0.9                  |
| P6RDL30_Z10U/3 | 120V            | 0.236A           | 0.70A             | 28.3W                 | 24.2W           | <10%          | >0.9                  |
|                | 277V            | 0.102A           | 0.70A             | 28.2W                 | 24.2W           | <10%          | >0.9                  |
|                | 347V            | 0.079A           | 0.65A             | 27.4W                 | 22.5W           | <15%          | >0.9                  |
| P6RDL35_Z10U/3 | 120V            | 0.285A           | 0.85A             | 34.2W                 | 29.4W           | <10%          | >0.9                  |
|                | 277V            | 0.123A           | 0.85A             | 34.2W                 | 29.4W           | <10%          | >0.9                  |
|                | 347V            | 0.101A           | 0.85A             | 35.0W                 | 29.4W           | <10%          | >0.9                  |
| P6RDL40_Z10U/3 | 120V            | 0.296A           | 0.88A             | 35.5W                 | 30.5W           | <10%          | >0.9                  |
|                | 277V            | 0.128A           | 0.88A             | 35.5W                 | 30.5W           | <10%          | >0.9                  |
|                | 347V            | 0.105A           | 0.88A             | 36.4W                 | 30.5W           | <10%          | >0.9                  |
| P6RDL45_Z10U/3 | 120V            | 0.307A           | 0.92A             | 36.8W                 | 31.7W           | <10%          | >0.9                  |
|                | 277V            | 0.133A           | 0.92A             | 36.8W                 | 31.7W           | <10%          | >0.9                  |
|                | 347V            | 0.109A           | 0.92A             | 37.7W                 | 31.7W           | <10%          | >0.9                  |
| P6RDL50_Z10U/3 | 120V            | 0.342A           | 1.02A             | 41.0W                 | 35.3W           | <10%          | >0.9                  |
|                | 277V            | 0.148A           | 1.02A             | 41.0W                 | 35.3W           | <10%          | >0.9                  |
|                | 347V            | 0.120A           | 1.02A             | 41.5W                 | 35.3W           | <10%          | >0.9                  |

### Electrical - Dim-to-Warm (9D2W)

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

| Product          | Input Volts (V) | Input Freq. (Hz) | Input Current (A) | LED Drive Current (A) | Input Power (W) | LED Power (W) | THD Factor @ Max Load |
|------------------|-----------------|------------------|-------------------|-----------------------|-----------------|---------------|-----------------------|
| P6RDL109D2W_Z10U | 120V            | 0.122A           | 0.325             | 14.6W                 | 11.7W           | <10%          | >0.9                  |
| P6RDL109D2W_Z10U | 277V            | 0.056A           | 0.325             | 15.6W                 | 11.7W           | <20%          | >0.9                  |
| P6RDL159D2W_Z10U | 120V            | 0.164A           | 0.460             | 19.7W                 | 16.6W           | <10%          | >0.9                  |
| P6RDL159D2W_Z10U | 277V            | 0.076A           | 0.460             | 21.0W                 | 16.6W           | <20%          | >0.9                  |
| P6RDL209D2W_Z10U | 120V            | 0.212A           | 0.600             | 25.4W                 | 21.6W           | <10%          | >0.9                  |
| P6RDL209D2W_Z10U | 277V            | 0.094A           | 0.600             | 26.0W                 | 21.6W           | <10%          | >0.9                  |
| P6RDL259D2W_Z10U | 120V            | 0.256A           | 0.725             | 30.7W                 | 26.1W           | <15%          | >0.9                  |
| P6RDL259D2W_Z10U | 277V            | 0.111A           | 0.725             | 30.7W                 | 26.1W           | <25%          | >0.8                  |
| P6RDL309D2W_Z10U | 120V            | 0.300A           | 0.850             | 36.0W                 | 30.6W           | <15%          | >0.9                  |
| P6RDL309D2W_Z10U | 277V            | 0.130A           | 0.850             | 36.0W                 | 30.6W           | <25%          | >0.8                  |

### Electrical - Tunable White (96T)

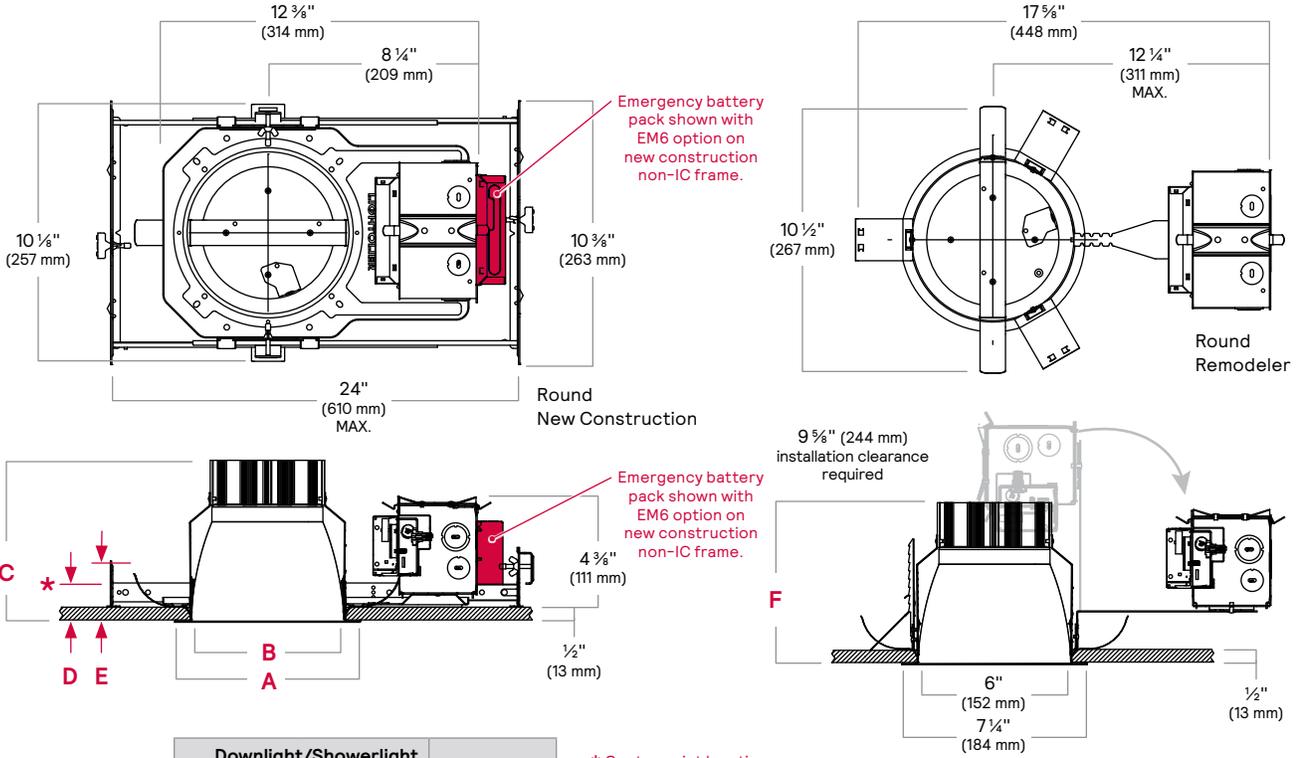
Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

| Product         | Input Volts (V) | Input Freq. (Hz) | Input Current (A) | LED Drive Current (A) | Input Power (W) | LED Power (W) | THD Factor @ Max Load |
|-----------------|-----------------|------------------|-------------------|-----------------------|-----------------|---------------|-----------------------|
| P6RDL1096T_Z10U | 120V            | 0.080A           | 0.220             | 9.5W                  | 7.9W            | <15%          | >0.9                  |
| P6RDL1096T_Z10U | 277V            | 0.037A           | 0.220             | 10.2W                 | 7.9W            | <15%          | >0.8                  |
| P6RDL1596T_Z10U | 120V            | 0.119A           | 0.332             | 14.2W                 | 12.0W           | <15%          | >0.9                  |
| P6RDL1596T_Z10U | 277V            | 0.055A           | 0.332             | 15.1W                 | 12.0W           | <15%          | >0.8                  |
| P6RDL2096T_Z10U | 120V            | 0.158A           | 0.447             | 18.9W                 | 16.1W           | <15%          | >0.9                  |
| P6RDL2096T_Z10U | 277V            | 0.073A           | 0.447             | 20.1W                 | 16.1W           | <15%          | >0.9                  |
| P6RDL2596T_Z10U | 120V            | 0.200A           | 0.566             | 24.0W                 | 20.4W           | <15%          | >0.9                  |
| P6RDL2596T_Z10U | 277V            | 0.091A           | 0.566             | 25.2W                 | 20.4W           | <15%          | >0.9                  |
| P6RDL3096T_Z10U | 120V            | 0.241A           | 0.692             | 29.0W                 | 24.9W           | <15%          | >0.9                  |
| P6RDL3096T_Z10U | 277V            | 0.110A           | 0.692             | 30.4W                 | 24.9W           | <10%          | >0.9                  |

# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

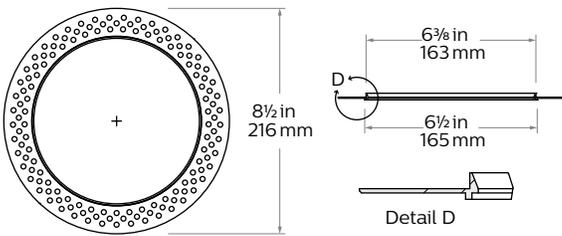
### New construction



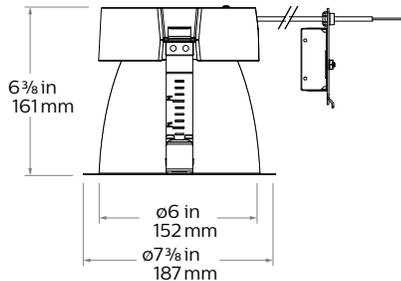
|   | Downlight/Showerlight |                | Lensed Wall Wash |
|---|-----------------------|----------------|------------------|
|   | 1000-3500lm           | 4000-5000lm    |                  |
| A | 7 1/4" (184mm)        | 7 1/4" (184mm) | 7 1/4" (184mm)   |
| B | 6" (152mm)            | 6" (152mm)     | 6" (152mm)       |
| C | 4 1/2" (116mm)        | 6 3/8" (160mm) | 4 1/8" (102mm)   |
| D | 2 3/8" (60mm)         | 2 3/8" (60mm)  | 2 5/8" (65mm)    |
| E | 3 3/8" (85mm)         | 3 3/8" (85mm)  | N/A              |
| F | 5" (127mm)            | 6 3/8" (160mm) | 4 7/8" (124mm)   |

- Lower end of LW lens is 3/16" (5mm) above flange.

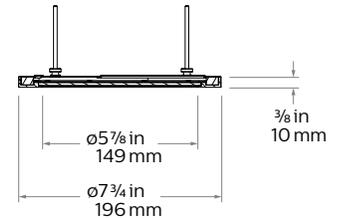
### Flangeless mud-in ring (CA6RFT) accessory



### Retrofit (R) with round trim



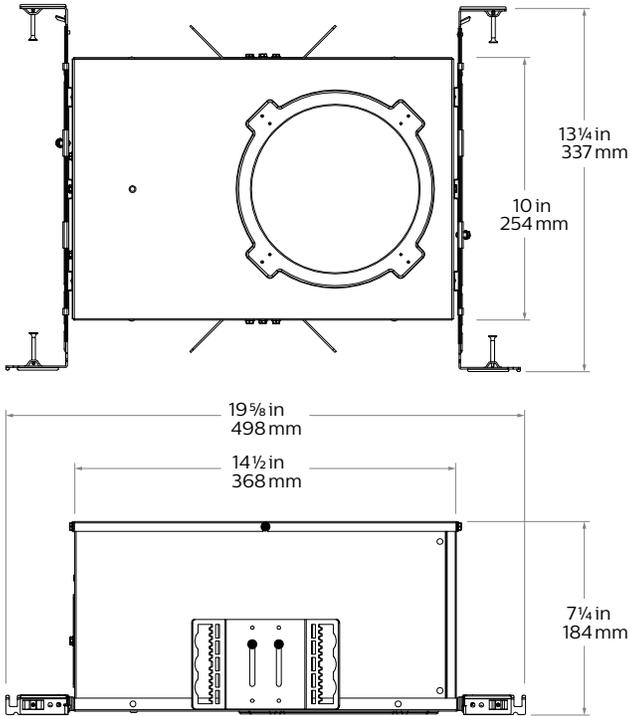
### Vandal Proof (VP) accessory



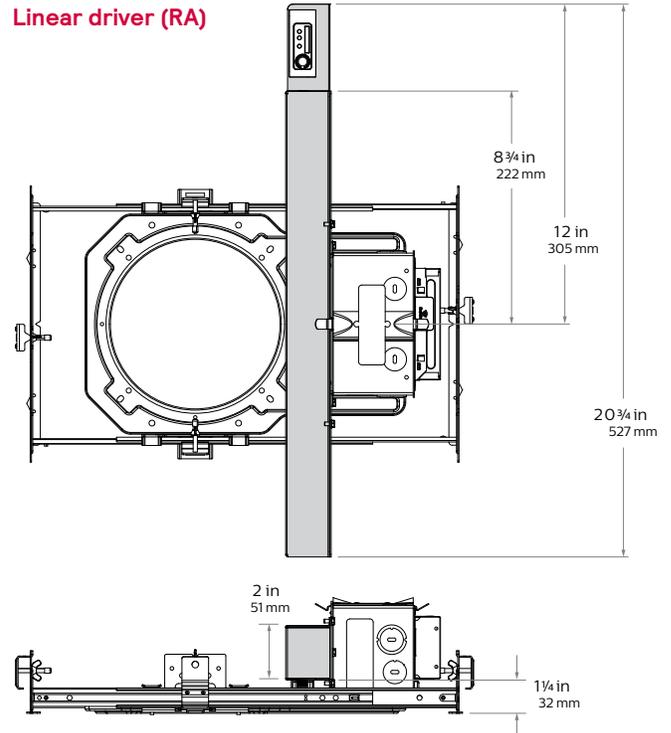
# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

### AirSeal (A)

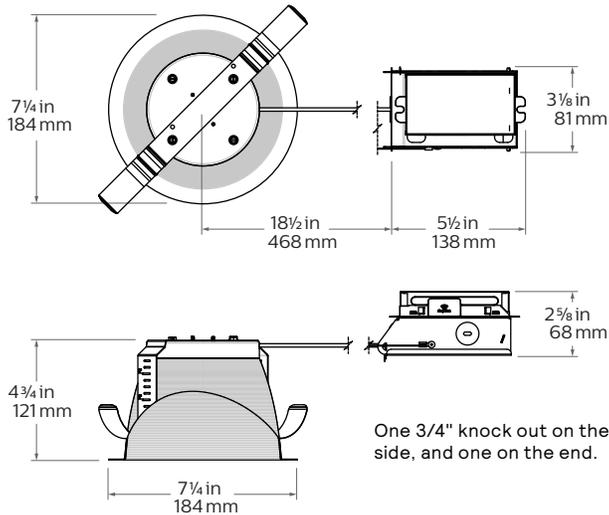


### Linear driver (RA)



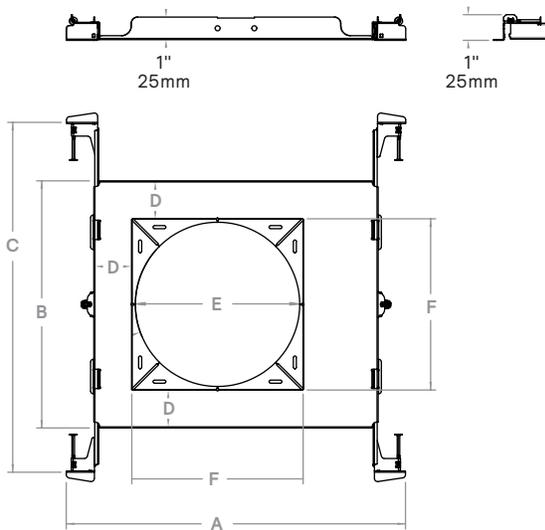
Requires either top access or 19" plenum space without sensor, and 22" with sensor.

### Flex Install (F)

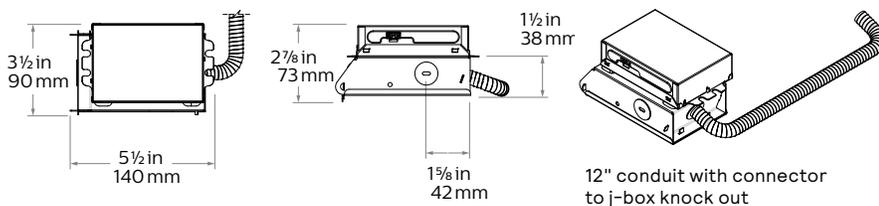


One 3/4" knock out on the side, and one on the end.

### 4RNSR Flex install non-IC frame



### LC6M6 Flex install (F) engine only



| A       | B      | C       | D    | E      | F      |
|---------|--------|---------|------|--------|--------|
| 10 1/4" | 7 1/4" | 13 3/4" | 1"   | 4 1/4" | 5 1/4" |
| 276mm   | 184mm  | 345mm   | 25mm | 124mm  | 132mm  |

# P6R LyteProfile 6"

## Round Downlight & Lensed Wall Wash

### Reflectors



**Specular clear (CL):** Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



**Comfort clear (CC):** Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



**Comfort clear diffuse (CD):** Slightly diffuse clear finish, which eliminates iridescence and reduces the mirror image effect inherent with a specular finish.



**Vandal proof (VP):** Provides an elegant solution for vandal resistant needs. One piece machined aluminum ring with impact resistant clear lens. Flangeless (F) flange must be ordered. Provides the luminaire with an IK10 impact and IP65 rating.



**White (-):** (matte) Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



**Black (BK):** Painted matte finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



**Shower light (SL):** Wet location rated shower light applicable in any installation requiring dead front trims, interior or exterior non-corrosive applications, or where a diffused lens at the ceiling is required (non-conductive).

### Flanges



**White (-):** (matte) Provides the smoothest transition to ceilings when off.



**Black (BK):** Painted matte finish that provides the lowest aperture brightness possible.



**Polished (P):** (matches aperture) Produces a continuous look throughout the reflector (aperture matching).



**Flangeless (F):** (flush-mount) Creates a flush, virtually seamless transition from aperture to ceiling.



**Mud-in ring (FT):** Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

# P6R LyteProfile 6"

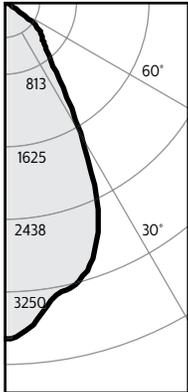
## Round Downlight & Lensed Wall Wash

### Adjustment Factors

| Finish    | CRI/CCT            | Lumens        |              |
|-----------|--------------------|---------------|--------------|
| CL = 100% | 90CRI 4000K = 106% | 5000lm = 167% | 2500lm = 83% |
| CC = 86%  | 90CRI 3500K = 104% | 4500lm = 150% | 2000lm = 67% |
| CD = 91%  | 90CRI 3000K = 100% | 4000lm = 133% | 1500lm = 50% |
| WH = 90%  | 90CRI 2700K = 96%  | 3500lm = 117% | 1000lm = 33% |
| BK = 54%  |                    | 3000lm = 100% |              |

### Downlight, Narrow beam, 29W LED, 90CRI, 3000K

#### Candela Curves



**Report#:**  
P6RDL30930NCLZ10U.ies

Output Lms: 2992 lms  
Spacing Crit.: 0.92  
Beam Angle: 58°  
Input Watts<sup>2</sup>: 28.8W  
Efficacy: 103.9lm/w  
CCT<sup>3</sup>: 3000K  
CRI: 90min

**Zonal lumens & percentages**

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 1861   | 62.2%      |
| 0-40 | 2415   | 80.7%      |
| 0-60 | 2982   | 99.7%      |
| 0-90 | 2992   | 100.0%     |

| Angle | Mean CP | Lms |
|-------|---------|-----|
| 0     | 3015    |     |
| 5     | 2903    |     |
| 10    | 2670    | 268 |
| 15    | 2585    |     |
| 20    | 2369    | 722 |
| 25    | 1942    |     |
| 30    | 1357    | 871 |
| 35    | 854     |     |
| 40    | 597     | 554 |
| 45    | 489     |     |
| 50    | 399     | 378 |
| 55    | 213     |     |
| 60    | 32      | 188 |
| 65    | 5       |     |
| 70    | 3       | 8   |
| 75    | 2       |     |
| 80    | 1       | 2   |
| 85    | 0       |     |
| 90    | 0       | 0   |

#### Single unit data

| Height to lighted plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 121                              | 4.6'            |
| 6'                      | 84                               | 5.5'            |
| 7'                      | 62                               | 6.4'            |
| 8'                      | 47                               | 7.4'            |
| 9'                      | 37                               | 8.3'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 134.0                            | 1.28             |
| 6'                | 88.0                             | 0.84             |
| 7'                | 63.0                             | 0.60             |
| 8'                | 53.0                             | 0.50             |
| 9'                | 42.0                             | 0.40             |

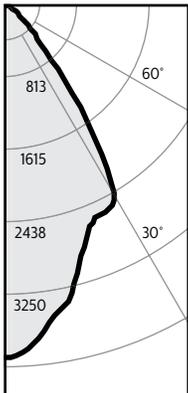
38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

#### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 113 | 110 | 107 | 105 | 108 | 103 | 104 | 100 | 100 | 97  | 92  |
|                   | 2   | 107 | 101 | 97  | 93  | 100 | 92  | 96  | 90  | 93  | 88  | 85  |
|                   | 3   | 101 | 94  | 88  | 84  | 92  | 83  | 90  | 82  | 87  | 81  | 78  |
|                   | 4   | 95  | 87  | 81  | 76  | 85  | 76  | 83  | 75  | 81  | 74  | 71  |
|                   | 5   | 90  | 80  | 74  | 69  | 79  | 69  | 78  | 68  | 76  | 68  | 66  |
|                   | 6   | 85  | 75  | 68  | 64  | 74  | 63  | 72  | 63  | 71  | 63  | 61  |
|                   | 7   | 80  | 70  | 63  | 59  | 69  | 59  | 68  | 58  | 67  | 58  | 56  |
|                   | 8   | 76  | 65  | 59  | 54  | 65  | 54  | 64  | 54  | 63  | 54  | 52  |
|                   | 9   | 72  | 61  | 55  | 51  | 61  | 51  | 60  | 50  | 59  | 50  | 49  |
|                   | 10  | 68  | 58  | 52  | 47  | 57  | 47  | 56  | 47  | 56  | 47  | 45  |

### Downlight, Medium beam, 29W LED, 90CRI, 3000K

#### Candela Curves



**Report#:**  
P6RDL30930MCLZ10U.ies

Output Lms: 3118 lms  
Spacing Crit.: 0.9  
Beam Angle: 66°  
Input Watts<sup>2</sup>: 28.8W  
Efficacy: 108.3lm/w  
CCT<sup>3</sup>: 3000K  
CRI: 90min

**Zonal lumens & percentages**

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 1935   | 62.1%      |
| 0-40 | 2734   | 87.7%      |
| 0-60 | 3112   | 99.8%      |
| 0-90 | 3118   | 100.0%     |

| Angle | Mean CP | Lms |
|-------|---------|-----|
| 0     | 3161    |     |
| 5     | 3048    |     |
| 10    | 2789    | 282 |
| 15    | 2498    |     |
| 20    | 2178    | 698 |
| 25    | 2065    |     |
| 30    | 1942    | 955 |
| 35    | 1298    |     |
| 40    | 650     | 799 |
| 45    | 349     |     |
| 50    | 224     | 288 |
| 55    | 93      |     |
| 60    | 13      | 90  |
| 65    | 4       |     |
| 70    | 2       | 5   |
| 75    | 1       |     |
| 80    | 1       | 2   |
| 85    | 0       |     |
| 90    | 0       | 0   |

#### Single unit data

| Height to lighted plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 126                              | 4.5'            |
| 6'                      | 88                               | 5.4'            |
| 7'                      | 65                               | 6.3'            |
| 8'                      | 49                               | 7.2'            |
| 9'                      | 39                               | 8.1'            |

\* Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 140.0                            | 1.28             |
| 6'                | 92.0                             | 0.84             |
| 7'                | 66.0                             | 0.60             |
| 8'                | 55.0                             | 0.50             |
| 9'                | 44.0                             | 0.40             |

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

#### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 113 | 110 | 107 | 105 | 108 | 103 | 104 | 100 | 100 | 97  | 92  |
|                   | 2   | 107 | 101 | 97  | 93  | 100 | 92  | 96  | 90  | 93  | 88  | 85  |
|                   | 3   | 101 | 94  | 88  | 84  | 92  | 83  | 90  | 82  | 87  | 81  | 78  |
|                   | 4   | 95  | 87  | 81  | 76  | 85  | 76  | 83  | 75  | 81  | 74  | 71  |
|                   | 5   | 90  | 80  | 74  | 69  | 79  | 69  | 78  | 68  | 76  | 68  | 66  |
|                   | 6   | 85  | 75  | 68  | 64  | 74  | 63  | 72  | 63  | 71  | 63  | 61  |
|                   | 7   | 80  | 70  | 63  | 59  | 69  | 59  | 68  | 58  | 67  | 58  | 56  |
|                   | 8   | 76  | 65  | 59  | 54  | 65  | 54  | 64  | 54  | 63  | 54  | 52  |
|                   | 9   | 72  | 61  | 55  | 51  | 61  | 51  | 60  | 50  | 59  | 50  | 49  |
|                   | 10  | 68  | 58  | 52  | 47  | 57  | 47  | 56  | 47  | 56  | 47  | 45  |

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

# P6R LyteProfile 6"

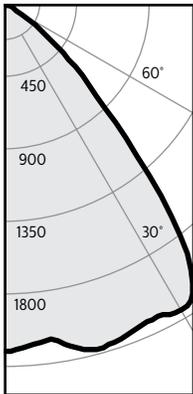
## Round Downlight & Lensed Wall Wash

### Adjustment Factors

| Finish    | CRI/CCT            | Lumens        |              |
|-----------|--------------------|---------------|--------------|
| CL = 100% | 90CRI 4000K = 106% | 5000lm = 167% | 2500lm = 83% |
| CC = 86%  | 90CRI 3500K = 104% | 4500lm = 150% | 2000lm = 67% |
| CD = 91%  | 90CRI 3000K = 100% | 4000lm = 133% | 1500lm = 50% |
| WH = 90%  | 90CRI 2700K = 96%  | 3500lm = 117% | 1000lm = 33% |
| BK = 54%  |                    | 3000lm = 100% |              |

### Downlight, Wide beam, 29W LED, 90CRI, 3000K

#### Candela Curves



#### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 1464   | 47.3%      |
| 0-40 | 2427   | 78.4%      |
| 0-60 | 3088   | 99.8%      |
| 0-90 | 3095   | 100.0%     |

#### Report: P6RDL30930WCLZ10U.ies

|                            |           |
|----------------------------|-----------|
| Output Lms:                | 3095lms   |
| Input Watts <sup>2</sup> : | 28.3W     |
| Efficacy:                  | 109.4lm/w |
| CCT <sup>3</sup> :         | 3000K     |
| CRI:                       | 90min     |
| Beam Angle:                | 84°       |
| Spacing Crit.:             | 1.42      |

#### Angle Mean CP Lms

| Angle | Mean CP | Lms |
|-------|---------|-----|
| 0     | 1720    |     |
| 5     | 1695    |     |
| 10    | 1710    | 162 |
| 15    | 1770    |     |
| 20    | 1750    | 498 |
| 25    | 1725    |     |
| 30    | 1752    | 804 |
| 35    | 1611    |     |
| 40    | 1114    | 963 |
| 45    | 646     |     |
| 50    | 379     | 520 |
| 55    | 139     |     |
| 60    | 17      | 141 |
| 65    | 4       |     |
| 70    | 3       | 6   |
| 75    | 1       |     |
| 80    | 1       | 2   |
| 85    | 0       |     |
| 90    | 0       | 0   |

#### Single unit data

| Height to lighted plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 69                               | 7.1'            |
| 6'                      | 48                               | 8.5'            |
| 7'                      | 35                               | 9.9'            |
| 8'                      | 27                               | 11.4'           |
| 9'                      | 21                               | 12.8'           |

\*Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5'                | 137.0                            | 1.25             |
| 6'                | 90.0                             | 0.82             |
| 7'                | 64.0                             | 0.59             |
| 8'                | 53.0                             | 0.49             |
| 9'                | 43.0                             | 0.39             |

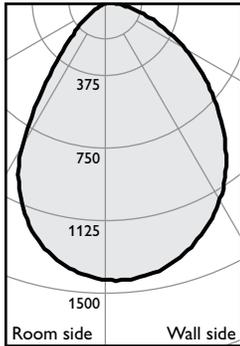
38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

#### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 113 | 109 | 107 | 104 | 107 | 102 | 103 | 99  | 99  | 96  | 92  |
|                   | 2   | 106 | 100 | 95  | 92  | 98  | 90  | 95  | 88  | 92  | 87  | 83  |
|                   | 3   | 99  | 92  | 86  | 81  | 90  | 80  | 87  | 79  | 85  | 78  | 75  |
|                   | 4   | 93  | 84  | 77  | 72  | 83  | 72  | 80  | 71  | 78  | 70  | 68  |
|                   | 5   | 87  | 77  | 70  | 65  | 76  | 65  | 74  | 64  | 72  | 64  | 61  |
|                   | 6   | 81  | 71  | 64  | 59  | 70  | 58  | 68  | 58  | 67  | 58  | 56  |
|                   | 7   | 76  | 65  | 58  | 53  | 65  | 53  | 63  | 53  | 62  | 52  | 51  |
|                   | 8   | 72  | 60  | 53  | 49  | 60  | 48  | 59  | 48  | 57  | 48  | 46  |
|                   | 9   | 67  | 56  | 49  | 44  | 55  | 44  | 54  | 44  | 53  | 44  | 42  |
|                   | 10  | 63  | 52  | 45  | 41  | 52  | 41  | 51  | 41  | 50  | 40  | 39  |

### Lensed Wall Wash, Wide beam, 29W LED, 90CRI, 3000K

#### Candela Curve



#### Report: P6RLW30930WCLZ10U.IES

|                            |          |
|----------------------------|----------|
| Output Lms:                | 2517lms  |
| Input Watts <sup>2</sup> : | 29.4W    |
| Efficacy:                  | 85.6lm/w |
| CCT <sup>3</sup> :         | 3000K    |
| CRI:                       | 90min    |

#### Multiple unit data

| Footcandles on wall | 2' from wall |            |            |
|---------------------|--------------|------------|------------|
|                     | 3' on ctr.   | 3' on ctr. | 3' on ctr. |
| 1                   | 57           | 47         | 57         |
| 2                   | 87           | 79         | 87         |
| 3                   | 73           | 71         | 73         |
| 4                   | 54           | 54         | 54         |
| 5                   | 38           | 39         | 38         |
| 6                   | 28           | 28         | 28         |
| 7                   | 21           | 22         | 21         |
| 8                   | 16           | 17         | 16         |
| 9                   | 13           | 13         | 13         |
| 10                  | 11           | 11         | 11         |
| 12                  | 9            | 9          | 9          |
| 14                  | 8            | 8          | 8          |

#### Multiple unit data

| Footcandles on wall | 3' from wall |            |            |
|---------------------|--------------|------------|------------|
|                     | 3' on ctr.   | 3' on ctr. | 3' on ctr. |
| 1                   | 25           | 24         | 25         |
| 2                   | 49           | 48         | 49         |
| 3                   | 55           | 55         | 55         |
| 4                   | 50           | 51         | 50         |
| 5                   | 41           | 42         | 41         |
| 6                   | 32           | 33         | 32         |
| 7                   | 26           | 26         | 26         |
| 8                   | 20           | 21         | 20         |
| 9                   | 16           | 17         | 16         |
| 10                  | 14           | 14         | 14         |
| 12                  | 11           | 12         | 11         |
| 14                  | 10           | 10         | 10         |

#### Multiple unit data

| Footcandles on wall | 3' from wall |            |            |
|---------------------|--------------|------------|------------|
|                     | 4' on ctr.   | 4' on ctr. | 4' on ctr. |
| 1                   | 22           | 17         | 22         |
| 2                   | 41           | 35         | 41         |
| 3                   | 44           | 40         | 44         |
| 4                   | 39           | 36         | 39         |
| 5                   | 31           | 30         | 31         |
| 6                   | 25           | 24         | 25         |
| 7                   | 19           | 19         | 19         |
| 8                   | 15           | 15         | 15         |
| 9                   | 12           | 12         | 12         |
| 10                  | 10           | 10         | 10         |
| 12                  | 9            | 8          | 9          |
| 14                  | 7            | 7          | 7          |

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

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