



**LyteCaster LED Downlights** are ideal general purpose downlighting solution, providing comfortable, quality light. Available in new construction and remodeler frame with interchangeable light engine that is offered in two lumen packages. The downlight is wet location listed and comes in 3 standard option.

Complete unit = Housing + Downlight or Adjustable Light Engine + Trim (order each separately)

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

### Housing

example: L4R10AE1VA

| Series                                                                   | Lumens                              | Installation (all with AirSeal IC)                                                               | Dimming                                  | Version             |
|--------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------|---------------------|
| <b>L4R</b>                                                               |                                     |                                                                                                  |                                          |                     |
| <b>L4R</b> LyteCaster 4" downlight (for round and square configurations) | <b>10</b> 1000lm                    | <b>A</b> New Construction w/ Screws<br><b>AN</b> New Construction w/ Nails<br><b>R</b> Remodeler | <b>E1</b> Phase Control (ELV/TRIAC 120V) | <b>VA</b> Version A |
|                                                                          | <b>06</b> 650lm<br><b>10</b> 1000lm | <b>A</b> New Construction w/ Screws<br><b>AN</b> New Construction w/ Nails<br><b>R</b> Remodeler | <b>Z10U</b> 0-10V (Universal 120-277V)   | <b>VB</b> Version B |

### Downlight Light Engine

example: L4R10927VB

| Series                                                                  | Lumens                              | CRI/CCT                                                                                                                                       | Finishes                                                | Version             |
|-------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| <b>L4R</b>                                                              |                                     |                                                                                                                                               |                                                         | <b>VB</b>           |
| <b>L4R</b> LyteCaster 4" round downlight (compatible with square trims) | <b>06</b> 650lm<br><b>10</b> 1000lm | <b>927</b> 90 CRI / 2700K<br><b>930</b> 90 CRI / 3000K<br><b>935</b> 90 CRI / 3500K<br><b>940</b> 90 CRI / 4000K<br><b>950</b> 90 CRI / 5000K | — Specified with Trim below (for downlight models only) | <b>VB</b> Version B |

### Adjustable Light Engine

example: L4RA10927WVB

| Series                                                          | Lumens                              | CRI/CCT                                                                                                                                       | Finishes                                                                                                          | Version             |
|-----------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>L4RA</b>                                                     |                                     |                                                                                                                                               | <b>W</b>                                                                                                          | <b>VB</b>           |
| <b>L4RA</b> LyteCaster 4" round adjustable (trim is integrated) | <b>06</b> 650lm<br><b>10</b> 1000lm | <b>927</b> 90 CRI / 2700K<br><b>930</b> 90 CRI / 3000K<br><b>935</b> 90 CRI / 3500K<br><b>940</b> 90 CRI / 4000K<br><b>950</b> 90 CRI / 5000K | <b>W</b> White Reflector / White Flange (integral to light engine for adjustable, do not specify Trim separately) | <b>VB</b> Version B |

### Trim (for downlights only)

example: L4RDD

| Series                                                                                | Style/Finish/Flange                                                                                                                                                           |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L4R</b> LyteCaster 4" round downlight<br><b>L4S</b> LyteCaster 4" square downlight | <b>DD</b> Open Downlight / Clear Diffuse / White Flange<br><b>DW</b> Open Downlight / White Finish / White Flange<br><b>BW</b> Baffle Downlight / White Finish / White Flange |

# L4R & L4S LyteCaster LED 4"

## Round & Square downlights and Round adjustables (650lm & 1000lm)

### Features

- Housing:** UL listed for direct contact with thermal insulation. Airseal® housing minimizes air leakage to less than 2 CFM at 1.57PSF (or 75PA), which complies with the International Energy Conservation Code, and Washington State Energy Code (Section 502.4). This reduces heat loss and condensation in ceiling.
- Housing (new construction):** .026" galvanized steel. Access door for inspection of junction box.
- Housing (remodeler):** .032" aluminum. Integral retaining spring secures housing to ceilings up to 2" thick. Removable for access to junction box and ceiling plenum. 5½" maximum for use in 2"x6" joist construction and shallow plenum applications.
- Junction Box (new construction):** 2½"x5½"x2" (27 cu. in.) .032" galvanized steel. UL listed 90°C supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).
- Junction Box (remodeler):** 2½"x2½"x4½" (29 cu in.) .031" galvanized steel. UL listed for 90°C supply conductors. Rated for branch circuit wiring supplying connected luminaires.
- Retaining clips:** Permits fast and easy installation of light engine/trim.
- Lower frame and top cover:** .026" galvanized steel. Accommodates ceilings up to 1" (25mm) thick. Deep integral lip is ⅝" (9.5mm) with four notches at 90° apart to simplify alignment. Locks into position along length of mounting bars with locking screws.
- Driver – ELV /Triac:** 120V, 50/60Hz. RoHS compliant, Class 2 power supply. Complies with FCC rules per Title 47 Part 15 (Class B) for EMI/RFI (conducted & radiated). Class A sound rating.
- Driver – 0-10V:** 120/277V, 50/60Hz. RoHS compliant, Class 2 power supply. Complies with FCC rules per Title 47 Part 15 (Class A) for EMI/RFI (conducted & radiated). Class A sound rating.
- Mounting bars:** .059" galvanized steel. Bars pivot for easy attachment and wire-in below ceiling line. Bars extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after a slight field modification (see Instruction sheet). Features integral self tapping phillips/square drive screws for secure attachment to wood or metal construction. Also available with integral nails. Attaches to T-bar ceilings without the need of accessories. Bars installed on shortest dimension of frame, but can be easily repositioned 90° from original position.
- Ceiling cutout:** 4⅜" (111mm).

### Dimming Compatibility

**SR1200ZTUNV** Philips Sunrise  
**IPE04, IP7** Leviton Illumatech  
**6615-P** Leviton Decora  
**DVLEV-303P** Lutron Diva  
**S-603P** Lutron Skylark

See LED-DIM Specification Sheet for more.

### Electronic dimming driver

Class 2 electronic LED Driver with less than 1 second start up.

RoHS compliant, suitable for damp locations. 120v 50/06Hz

>.9 power factor. Sound rating

Class "A" (<24dB). Complies with FCC

CFR title 47 part 15 Class B for EMI/RFI

Dimmable with standard electronic low voltage (ELV) & Triac dimmers

Dims to less than or equal to 10% of relative high output.

### ENERGY STAR®

0-10v (Z10) dimming is Energy Star qualified. Electronic low voltage (E) dimming is not Energy Star qualified.

### Labels

cULus Listed Type I.C., frames are suitable for damp location and wet listed for use in covered ceilings.

Trims are cULus suitable for damp location.

Complies with Air Leakage.

ENERGY STAR® certified.

5 year limited warranty

### Electrical specifications

**Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty. (see Signify.com/warranties for details)

| Frame-in kit               | Lumens | Input volts | Input freq. | Input current | LED drive current | Input power | LED power | THD Factor @ Max Load | Power Factor @ Max Load |
|----------------------------|--------|-------------|-------------|---------------|-------------------|-------------|-----------|-----------------------|-------------------------|
| L4RAZ10UVB / L4R06RZ10UVB  | 650    | 120V        | 50/60Hz     | 0.05A         | 115mA             | 6W          | 5W        | <15%                  | >0.9                    |
|                            |        | 277V        | 50/60Hz     | 0.02A         | 115mA             | 6W          | 5W        | <15%                  | >0.9                    |
| L4R10AE1VA / L4R10RE1VB    | 1000   | 120V        | 50/60Hz     | 0.02A         | 220mA             | 11W         | 9W        | <15%                  | >0.9                    |
| L4R10AZ10UVB / L4R10R10UVB | 1000   | 120V        | 50/60Hz     | 0.07A         | 220mA             | 9W          | 7W        | <10%                  | >0.9                    |
|                            |        | 277V        | 50/60Hz     | 0.03A         | 220mA             | 9W          | 7W        | <10%                  | >0.9                    |



## Round & Square downlights and Round adjustables (650lm & 1000lm)

Technical drawings of the 1000 Series LED strip light showing front and side views with dimensions:

- Front View (Left):** Shows the strip light mounted on a surface. Dimensions include a total width of  $5 \frac{1}{4}"$  (133mm), a mounting bracket width of  $3 \frac{13}{16}"$  (96mm), and a height of  $1 \frac{13}{16}"$  (47mm).
- Side View (Right):** Shows the strip light tilted at an angle. The text indicates: **Maximum tilt: 30°**.

# L4R & L4S LyteCaster LED 4"

Round & Square downlights and Round adjustables (650lm & 1000lm)



## 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 Lightolier 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<sub>a</sub> up to 94 CRI
- R<sub>9</sub> up to 67 CRI
- G<sub>a</sub> up to 99 CRI
- C<sub>9</sub> up to 94 CRI
- R<sub>f</sub> up to 92 TM-30
- R<sub>f,h1</sub> up to 91 TM-30
- R<sub>g</sub> up to 100 TM-30
- R<sub>ca,h1</sub> up to -5% TM-30

### Achieve color balance

#### Best in class color consistency:

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

# L4R & L4S LyteCaster LED 4"

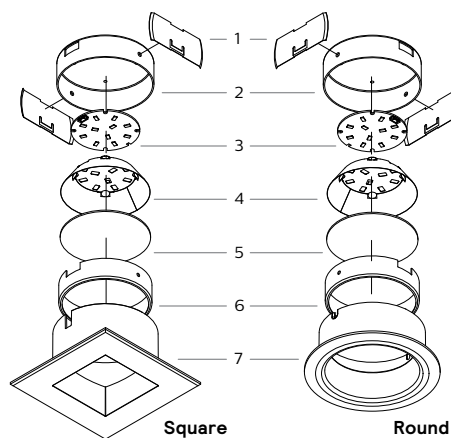
Round & Square downlights and Round adjustables (650lm & 1000lm)

## Light Engine



## Components

1. **Retaining clips:** 29 gauge Stainless Steel, allows tool-less installation of light engine to trim.
2. **Engine housing:** (0.05") thick powder coated aluminum provides integrated thermal management allowing for a low profile at less than 3-1/2" tall.
3. **LED board:** High efficiency mid-flux LED's.
4. **Mixing chamber:** 98% reflective, highly diffuse film.
5. **Diffusion lens:** (0.06") thick acrylic opal lens provides an even source of illumination.
6. **Retaining ring:** (0.04") thick powder coated aluminum, secures module components.
7. **Reflector:** 30% glass reinforced injection molded polycarbonate is durable and provides a 70° cutoff to the source.



## Trim & Finish options



Open Downlight  
Clear Diffuse  
White Flange  
(DD)

Open Downlight  
White Finish  
White Flange  
(DW)

Baffle Downlight  
White Finish  
White Flange  
(BW)

Open Downlight  
Clear Diffuse  
White Flange  
(DD)

Open Downlight  
White Finish  
White Flange  
(DW)

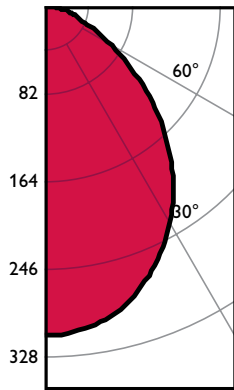
Baffle Downlight  
White Finish  
White Flange  
(BW)

White Reflector  
White Flange  
(adjustable)

# L4R & L4S LyteCaster LED 4"

## Round & Square downlights and Round adjustables (650lm & 1000lm)

### Round, 650lm engine, 90CRI / 3500K, 103lm/W at 6W



Housing:  
L4R06AZ10UVB  
Light Engine:  
L4R06935VB  
Trim:  
L4RDW

Output lumens: 629lm  
Input Watts: 6.1W  
Spacing Crit.: 1.14  
Beam Angle: 90°  
Efficacy: 103.1lm/W  
CCT: 3500K  
CRI: 90  
Report no: STMR-1151

#### Single unit data

| Height to<br>Lighted Plane | Initial Center Beam<br>Foot-Candles | Beam<br>Dia. (ft)* |
|----------------------------|-------------------------------------|--------------------|
| 5'                         | 12                                  | 5.7'               |
| 6'                         | 8                                   | 6.8'               |
| 7'                         | 6                                   | 8.0'               |
| 8'                         | 5                                   | 9.1'               |
| 9'                         | 4                                   | 10.3'              |

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

#### Multiple unit data - RCR 2

| Spacing<br>on center | Initial Center Beam<br>Foot-Candles | Watts<br>per Sq. Ft. |
|----------------------|-------------------------------------|----------------------|
| 5'                   | 26.0                                | 0.27                 |
| 6'                   | 17.0                                | 0.18                 |
| 7'                   | 12.0                                | 0.13                 |
| 8'                   | 10.0                                | 0.11                 |
| 9'                   | 8.0                                 | 0.08                 |

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

#### Coefficients of utilization

| Ceiling           | 80%                                                     |     |     |     | 70% |     | 50% |     | 30% |     | 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 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1                 | 110                                                     | 110 | 106 | 102 | 104 | 98  | 100 | 94  | 96  | 92  | 87  |
| 2                 | 102                                                     | 102 | 94  | 88  | 93  | 82  | 89  | 80  | 86  | 79  | 75  |
| 3                 | 94                                                      | 94  | 84  | 77  | 83  | 71  | 80  | 69  | 77  | 68  | 65  |
| 4                 | 87                                                      | 87  | 76  | 68  | 74  | 61  | 72  | 60  | 70  | 60  | 57  |
| 5                 | 80                                                      | 80  | 68  | 60  | 67  | 54  | 65  | 53  | 63  | 53  | 50  |
| 6                 | 74                                                      | 74  | 62  | 54  | 61  | 48  | 60  | 47  | 58  | 47  | 45  |
| 7                 | 69                                                      | 69  | 57  | 49  | 56  | 43  | 55  | 43  | 53  | 42  | 40  |
| 8                 | 65                                                      | 65  | 52  | 44  | 51  | 39  | 50  | 38  | 49  | 38  | 36  |
| 9                 | 61                                                      | 61  | 48  | 40  | 48  | 35  | 46  | 35  | 45  | 35  | 33  |
| 10                | 57                                                      | 57  | 45  | 37  | 44  | 32  | 43  | 32  | 42  | 32  | 30  |

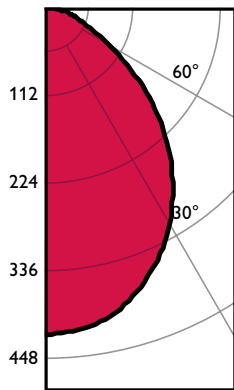
#### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 224    | 35.6%      |
| 0-40 | 353    | 56.1%      |
| 0-60 | 551    | 87.6%      |
| 0-90 | 629    | 100.0%     |

#### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.92 |
| 90CRI 3000K: = 0.96 |
| 90CRI 3500K: = 1.00 |
| 90CRI 4000K: = 1.02 |
| 90CRI 5000K: = 1.02 |

### Round, 1000lm engine, 90CRI / 3500K, 98lm/W at 9W



Housing:  
L4R10AE1VA  
L4R10AZ10UVB  
Light Engine:  
L4R10935VB  
Trim:  
L4RDW

Output lumens: 869lm  
Input Watts: 8.8W  
Spacing Crit.: 1.16  
Beam Angle: 90°  
Efficacy: 98.3lm/W  
CCT: 3500K  
CRI: 90  
Report no: STMR-1149.R

#### Single unit data

| Height to<br>Lighted Plane | Initial Center Beam<br>Foot-Candles | Beam<br>Dia. (ft)* |
|----------------------------|-------------------------------------|--------------------|
| 5'                         | 17                                  | 5.8'               |
| 6'                         | 12                                  | 7.0'               |
| 7'                         | 9                                   | 8.1'               |
| 8'                         | 7                                   | 9.3'               |
| 9'                         | 5                                   | 10.4'              |

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

#### Multiple unit data - RCR 2

| Spacing<br>on center | Initial Center Beam<br>Foot-Candles | Watts<br>per Sq. Ft. |
|----------------------|-------------------------------------|----------------------|
| 5'                   | 36.0                                | 0.39                 |
| 6'                   | 24.0                                | 0.26                 |
| 7'                   | 17.0                                | 0.18                 |
| 8'                   | 14.0                                | 0.15                 |
| 9'                   | 11.0                                | 0.12                 |

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

#### Coefficients of utilization

| Ceiling           | 80%                                                     |     |     |     | 70% |     | 50% |     | 30% |     | 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 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1                 | 110                                                     | 106 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 87  |
| 2                 | 102                                                     | 94  | 88  | 83  | 93  | 82  | 89  | 81  | 86  | 79  | 75  |
| 3                 | 94                                                      | 84  | 77  | 71  | 83  | 70  | 80  | 69  | 77  | 68  | 65  |
| 4                 | 86                                                      | 75  | 67  | 61  | 74  | 61  | 72  | 60  | 69  | 59  | 56  |
| 5                 | 80                                                      | 68  | 60  | 53  | 67  | 53  | 65  | 53  | 63  | 52  | 50  |
| 6                 | 74                                                      | 61  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
| 7                 | 69                                                      | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 52  | 41  | 39  |
| 8                 | 64                                                      | 51  | 43  | 38  | 51  | 38  | 49  | 37  | 48  | 37  | 35  |
| 9                 | 60                                                      | 47  | 39  | 34  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
| 10                | 56                                                      | 44  | 36  | 31  | 43  | 31  | 42  | 31  | 41  | 31  | 29  |

#### Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 224    | 35.6%      |
| 0-40 | 353    | 56.1%      |
| 0-60 | 551    | 87.6%      |
| 0-90 | 629    | 100.0%     |

#### CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.92 |
| 90CRI 3000K: = 0.96 |
| 90CRI 3500K: = 1.00 |
| 90CRI 4000K: = 1.02 |
| 90CRI 5000K: = 1.02 |

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

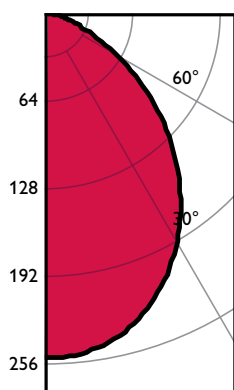
2. Wattage controlled to within +/- 5%.

Note: Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# L4R & L4S LyteCaster LED 4"

Round & Square downlights and Round adjustables (650lm & 1000lm)

Square, 650lm engine, 90 CRI / 3500 K, 84lm/W at 6W



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 246     |        |
| 5     | 244     | 23     |
| 10    | 240     |        |
| 15    | 232     | 65     |
| 20    | 220     |        |
| 25    | 205     | 94     |
| 30    | 188     | 105    |
| 35    | 168     |        |
| 40    | 147     |        |
| 45    | 125     | 96     |
| 50    | 101     | 70     |
| 55    | 78      |        |
| 60    | 57      |        |
| 65    | 38      | 38     |
| 70    | 24      |        |
| 75    | 16      | 17     |
| 80    | 10      |        |
| 85    | 4       | 5      |
| 90    | 0       |        |

## Single unit data

| Height to Lighted Plane | Initial Center Beam Foot-Candles | Beam Dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 10                               | 5.8'            |
| 6'                      | 7                                | 7.0'            |
| 7'                      | 5                                | 8.1'            |
| 8'                      | 4                                | 9.3'            |
| 9'                      | 3                                | 10.4'           |

\* 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'                | 22.0                             | 0.27              |
| 6'                | 14.0                             | 0.18              |
| 7'                | 10.0                             | 0.13              |
| 8'                | 8.0                              | 0.11              |
| 9'                | 7.0                              | 0.08              |

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

## Coefficients of utilization

| Ceiling           | 80%                                                     |     |     |     | 70% |     | 50% |     | 30% |     | 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 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1                 | 110                                                     | 110 | 106 | 102 | 104 | 98  | 100 | 94  | 96  | 92  | 87  |
| 2                 | 102                                                     | 102 | 94  | 88  | 93  | 82  | 89  | 80  | 86  | 79  | 75  |
| 3                 | 94                                                      | 94  | 84  | 77  | 83  | 71  | 80  | 69  | 77  | 68  | 65  |
| 4                 | 87                                                      | 87  | 76  | 68  | 74  | 61  | 72  | 60  | 70  | 60  | 57  |
| 5                 | 80                                                      | 80  | 68  | 60  | 67  | 54  | 65  | 53  | 63  | 53  | 50  |
| 6                 | 74                                                      | 74  | 62  | 54  | 61  | 48  | 60  | 47  | 58  | 47  | 45  |
| 7                 | 69                                                      | 69  | 57  | 49  | 56  | 43  | 55  | 43  | 53  | 42  | 40  |
| 8                 | 65                                                      | 65  | 52  | 44  | 51  | 39  | 50  | 38  | 49  | 38  | 36  |
| 9                 | 61                                                      | 61  | 48  | 40  | 48  | 35  | 46  | 35  | 45  | 35  | 33  |
| 10                | 57                                                      | 57  | 45  | 37  | 44  | 32  | 43  | 32  | 42  | 32  | 30  |

## Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 183    | 35.6%      |
| 0-40 | 288    | 56.0%      |
| 0-60 | 454    | 88.3%      |
| 0-90 | 514    | 100.0%     |

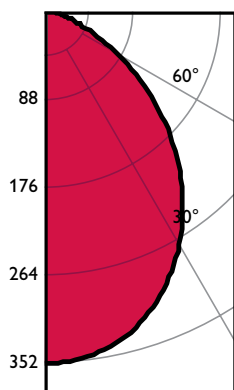
## CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.92 |
| 90CRI 3000K: = 0.96 |
| 90CRI 3500K: = 1.00 |
| 90CRI 4000K: = 1.02 |
| 90CRI 5000K: = 1.02 |

Housing:  
L4R06AZ10UVB  
Light Engine:  
L4R06935VB  
Trim:  
L4SDW

Output lumens: 514lm  
Input Watts: 6.1W  
Spacing Crit.: 1.16  
Beam Angle: 90°  
Efficacy: 84.3lm/W  
CCT: 3500K  
CRI: 90  
Report no: STMR-1153

Square, 1000lm engine, 90 CRI / 3500 K, 82lm/W at 9W



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 348     |        |
| 5     | 346     | 33     |
| 10    | 340     |        |
| 15    | 329     | 92     |
| 20    | 312     |        |
| 25    | 290     | 134    |
| 30    | 266     | 148    |
| 35    | 238     |        |
| 40    | 207     |        |
| 45    | 175     | 135    |
| 50    | 142     | 98     |
| 55    | 110     |        |
| 60    | 79      |        |
| 65    | 53      | 53     |
| 70    | 34      |        |
| 75    | 23      | 24     |
| 80    | 14      |        |
| 85    | 6       | 7      |
| 90    | 0       |        |

## Single unit data

| Height to Lighted Plane | Initial Center Beam Foot-Candles | Beam Dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5'                      | 14                               | 5.8'            |
| 6'                      | 10                               | 7.0'            |
| 7'                      | 7                                | 8.1'            |
| 8'                      | 5                                | 9.3'            |
| 9'                      | 4                                | 10.4'           |

\* 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'                | 30.0                             | 0.39              |
| 6'                | 20.0                             | 0.26              |
| 7'                | 14.0                             | 0.18              |
| 8'                | 12.0                             | 0.15              |
| 9'                | 10.0                             | 0.12              |

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

## Coefficients of utilization

| Ceiling           | 80%                                                     |     |     |     | 70% |     | 50% |     | 30% |     | 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 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1                 | 110                                                     | 106 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 87  |
| 2                 | 102                                                     | 94  | 88  | 83  | 93  | 82  | 89  | 81  | 86  | 79  | 75  |
| 3                 | 94                                                      | 84  | 77  | 71  | 83  | 70  | 80  | 69  | 77  | 68  | 65  |
| 4                 | 86                                                      | 75  | 67  | 61  | 74  | 61  | 72  | 60  | 69  | 59  | 56  |
| 5                 | 80                                                      | 68  | 60  | 53  | 67  | 53  | 65  | 53  | 63  | 52  | 50  |
| 6                 | 74                                                      | 61  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
| 7                 | 69                                                      | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 52  | 41  | 39  |
| 8                 | 64                                                      | 51  | 43  | 38  | 51  | 38  | 49  | 37  | 48  | 37  | 35  |
| 9                 | 60                                                      | 47  | 39  | 34  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
| 10                | 56                                                      | 44  | 36  | 31  | 43  | 31  | 42  | 31  | 41  | 31  | 29  |

## Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 259    | 35.8%      |
| 0-40 | 407    | 56.2%      |
| 0-60 | 640    | 88.4%      |
| 0-90 | 724    | 100.0%     |

## CRI and CCT adjustment factors

|                     |
|---------------------|
| 90CRI 2700K: = 0.92 |
| 90CRI 3000K: = 0.96 |
| 90CRI 3500K: = 1.00 |
| 90CRI 4000K: = 1.02 |
| 90CRI 5000K: = 1.02 |

Housing:  
L4R10AE1VA  
L4R10AZ10UVB  
Light Engine:  
L4R10935VB  
Trim:  
L4SDW

Output lumens: 724lm  
Input Watts: 8.8W  
Spacing Crit.: 1.16  
Beam Angle: 90°  
Efficacy: 82.3lm/W  
CCT: 3500K  
CRI: 90  
Report no: STMR-1149.S

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



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