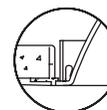
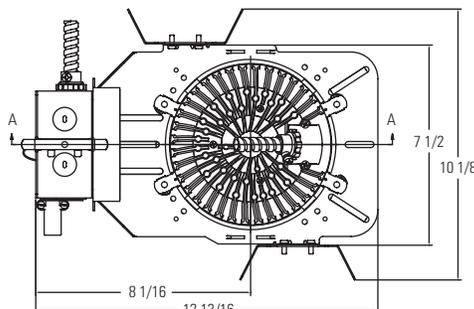
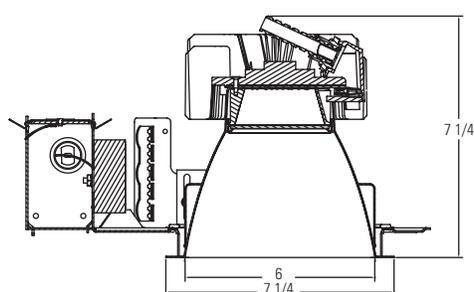


Calculite LED Downlight **C6L1520DL (M)**



Flangeless Trim with Plaster Ring Accessory CA6FMR (Recommended for gypsum installations)

Ordering Guide: Light Engines

| Light Engine Series | Style | Color Temperature | Beam Spread | Reflector Finish | Flange | Options |
|---------------------|--------------------------|--|----------------------------------|---|--|---|
| C6L1520 | DL (Downlight) | 27K (2700K) 30K (3000K) 35K (3500K) 40K (4000K) | M (Medium beam, 0.9 s.c.) | CL (Clear) CCL (Comfort Clear) CCD (Comfort Clear Diffuse) CCZ (Champagne Bronze) WH (Painted White) | W (Painted white) P (Aperture-matching/polished) FT (Flush-mount/flangeless) ¹ | EM (Integral emergency test switch) |

Example: C6L1520DL35KMCCCLWEM

¹Accessory CA6FMR recommended for gypsum applications. Reflector flange is 1/8".

Ordering Guide: Frame-in Kits

| Frame-in Kit Series | Installation Options | Input Voltage | Options |
|--|--|------------------------------------|---|
| C6L15 (1500 Lumen) C6L20 (2000 Lumen) | N (New construction) R (Remodeler) | 1 (120V) 2 (277V) | Blank (0-10 volt dimming) EM (Emergency) |
| CUL15 (1500 Lumen) CUL20 (2000 Lumen) | J (J-box mount retrofit) S (Screw-in base retrofit (120V only)) | 1 (120V) 2 (277V) | Blank (0-10 volt dimming) |

Example: C6L15N1EM

Features

- Aperture:** 6" (152 mm) I.D., 7 1/4" (184mm) O.D.
- Input Wattage:** 27W (1500 Lumens), 39W (2000 Lumens).
- Reflector Cone:** Aluminum. Provides 50° cutoff to source & source image. Self-flanged.
- Depth (including Frame-in kit):** 7 1/4" (184mm)
- Power Connection:** Attaches to frame-in kit via push-in connector (on frame). Removable cover provides access.

Technology

- LED Board:** Array of high brightness royal blue LED's.
- Remote Phosphor Technology:** Patented remote phosphor technology provides increased efficiency and color consistency. Phosphor lens assembly positioned in front of LED array converts blue light to white. Color shift will not exceed +/- 100K over life.
- Optical Mixing Chamber:** Lightolier-specific mixing chamber redirects back-reflected light through aperture resulting in 20% increase in efficiency.
- Thermal Management:** Proprietary heat sink and thermal design along with clean room assembly ensures specified performance.
- Rated Life:** Based on IESNA LM-80-2008
1500 Lumen – 60,000 hours at 70% lumen maintenance.
2000 Lumen – 57,000 hours at 70% lumen maintenance.
- Photometric Performance:** Tested in accordance to IESNA LM-79-2008

Options

- Dimming Capability:** 0-10V. See LED-DIM specification sheet
- Emergency Capability (Integral):** Add "EM" suffix. See LED-EM spec sheet.
- Emergency Capability (Inverter):** See LED-LMI specification sheet

Labels

- UL (suitable for wet locations), cUL, I.B.E.W.
- 5 Year Warranty

| Job Information | Type: |
|------------------|-------|
| Job Name: | |
| Cat. No.: | |
| Lamp(s): | |
| Notes: | |

Calculite LED Downlight **C6L1520DL (M)**

Page 2 of 2

1500/2000 Lumen Medium Beam, 6" Aperture Remote Phosphor LED

Correlated Color Temperature (CCT) Multipliers

2700K (x 0.92), **3000K** (x 1.00), **3500K** (x 1.07), **4000K** (x 1.14)

Reflector Finish Multipliers

CL (x 1.00), **CCL** (x 0.80), **CCD** (x 0.78), **CCZ** (x 0.63), **WH** (x 0.68) — **CL** & **CCD** finishes are tested. **CCL**, **CCZ** & **WH** are calculated.

1500 LM, 3000K, CL FINISH TRIM

| Candlepower Distribution | ANGLE | MEAN CP | LUMENS |
|--------------------------|-------|---------|--------|
| | 0 | 1672 | |
| | 5 | 1625 | 153 |
| | 10 | 1551 | |
| | 15 | 1477 | 417 |
| | 20 | 1405 | |
| | 25 | 1182 | 501 |
| | 30 | 612 | |
| | 35 | 313 | 205 |
| | 40 | 139 | |
| | 45 | 32 | 35 |
| | 50 | 3 | |
| | 55 | 1 | 1 |
| | 60 | 1 | |
| | 65 | 0 | 0 |
| | 70 | 0 | |
| | 75 | 0 | 0 |
| | 80 | 0 | |
| | 85 | 0 | 0 |
| | 90 | 0 | |

Trim/Frame:
C6L1520DL30KMCLW/C6L15N1

Output lumens: 1312 lm

Correlated Color Temp¹: 3000K

Input Watts²: 26.6 w

Efficacy: 49.3 lm/w

CRI⁴: 78

Spacing Criterion: 0.8

| CEILING | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 0% |
|---------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|
| WALL | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal Cavity Method - Effective Floor Cavity Reflectance = 20% | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 | | | | | | |
| 1 | 114 | 111 | 109 | 107 | 109 | 105 | 105 | 102 | 101 | 99 | 94 | | | | | | |
| 2 | 109 | 104 | 100 | 97 | 102 | 96 | 99 | 94 | 96 | 92 | 89 | | | | | | |
| 3 | 104 | 98 | 93 | 89 | 96 | 89 | 94 | 87 | 91 | 86 | 83 | | | | | | |
| 4 | 99 | 92 | 87 | 83 | 91 | 82 | 89 | 81 | 87 | 80 | 78 | | | | | | |
| 5 | 94 | 87 | 81 | 77 | 86 | 77 | 84 | 76 | 82 | 76 | 73 | | | | | | |
| 6 | 90 | 82 | 76 | 72 | 81 | 72 | 80 | 71 | 78 | 71 | 69 | | | | | | |
| 7 | 86 | 77 | 72 | 68 | 77 | 68 | 75 | 67 | 74 | 67 | 65 | | | | | | |
| 8 | 82 | 73 | 68 | 64 | 73 | 64 | 72 | 63 | 71 | 63 | 62 | | | | | | |
| 9 | 78 | 69 | 64 | 60 | 69 | 60 | 68 | 60 | 67 | 60 | 58 | | | | | | |
| 10 | 75 | 66 | 60 | 57 | 66 | 57 | 65 | 57 | 64 | 56 | 55 | | | | | | |

| ZONAL LUMENS AND PERCENTAGES | | | |
|------------------------------|--------|------------|--|
| ZONE | LUMENS | %LUMINAIRE | |
| 0-30 | 1071 | 81.6% | |
| 0-40 | 1275 | 97.2% | |
| 0-60 | 1312 | 100.0% | |
| 0-90 | 1312 | 100.0% | |

| Single Unit Data | | | |
|-------------------------|---------------------|---------------|--|
| Height to Lighted Plane | Initial Footcandles | Beam Diameter | |
| 5' | 67 | 5' | |
| 6' | 46 | 6' | |
| 7' | 34 | 7' | |
| 8' | 26 | 8' | |
| 9' | 21 | 10' | |

| Multiple Unit Data - RCR 2 | | | |
|----------------------------|-----------------------|-------------|---------|
| Spacing | Initial Watts/On Ctr. | Footcandles | Sq. Ft. |
| 5' | 60.5 | 1.18 | |
| 6' | 39.7 | 0.77 | |
| 7' | 28.4 | 0.55 | |
| 8' | 23.6 | 0.46 | |
| 9' | 18.9 | 0.37 | |

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F10018³

2000 LM, 3000K, CL FINISH TRIM

| Candlepower Distribution | ANGLE | MEAN CP | LUMENS |
|--------------------------|-------|---------|--------|
| | 0 | 2298 | |
| | 5 | 2233 | 210 |
| | 10 | 2130 | |
| | 15 | 2028 | 573 |
| | 20 | 1931 | |
| | 25 | 1630 | 690 |
| | 30 | 843 | |
| | 35 | 431 | 282 |
| | 40 | 191 | |
| | 45 | 44 | 48 |
| | 50 | 4 | |
| | 55 | 2 | 2 |
| | 60 | 1 | |
| | 65 | 1 | 1 |
| | 70 | 0 | |
| | 75 | 0 | 0 |
| | 80 | 0 | |
| | 85 | 0 | 0 |
| | 90 | 0 | |

Trim/Frame:
C6L1520DL30KMCLW/C6L20N1

Output lumens: 1805 lm

Correlated Color Temp¹: 3000K

Input Watts²: 39.5 w

Efficacy: 45.7 lm/w

CRI⁴: 78

Spacing Criterion: 0.8

| CEILING | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 0% |
|---------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|
| WALL | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal Cavity Method - Effective Floor Cavity Reflectance = 20% | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 | | | | | | |
| 1 | 114 | 111 | 109 | 107 | 109 | 105 | 105 | 102 | 101 | 99 | 94 | | | | | | |
| 2 | 109 | 104 | 100 | 97 | 103 | 96 | 99 | 94 | 96 | 92 | 89 | | | | | | |
| 3 | 104 | 98 | 93 | 89 | 96 | 89 | 94 | 87 | 91 | 86 | 83 | | | | | | |
| 4 | 99 | 92 | 87 | 83 | 91 | 82 | 89 | 81 | 87 | 80 | 78 | | | | | | |
| 5 | 94 | 87 | 81 | 77 | 86 | 77 | 84 | 76 | 82 | 75 | 73 | | | | | | |
| 6 | 90 | 82 | 76 | 72 | 81 | 72 | 80 | 71 | 78 | 71 | 69 | | | | | | |
| 7 | 86 | 77 | 72 | 68 | 77 | 68 | 75 | 67 | 74 | 67 | 65 | | | | | | |
| 8 | 82 | 73 | 68 | 64 | 73 | 64 | 72 | 63 | 71 | 63 | 62 | | | | | | |
| 9 | 78 | 69 | 64 | 60 | 69 | 60 | 68 | 60 | 67 | 60 | 58 | | | | | | |
| 10 | 75 | 66 | 60 | 57 | 66 | 57 | 65 | 57 | 64 | 56 | 55 | | | | | | |

| ZONAL LUMENS AND PERCENTAGES | | | |
|------------------------------|--------|------------|--|
| ZONE | LUMENS | %LUMINAIRE | |
| 0-30 | 1472 | 81.5% | |
| 0-40 | 1754 | 97.2% | |
| 0-60 | 1805 | 100.0% | |
| 0-90 | 1805 | 100.0% | |

| Single Unit Data | | | |
|-------------------------|---------------------|---------------|--|
| Height to Lighted Plane | Initial Footcandles | Beam Diameter | |
| 5' | 92 | 5' | |
| 6' | 64 | 6' | |
| 7' | 47 | 7' | |
| 8' | 36 | 8' | |
| 9' | 28 | 10' | |

| Multiple Unit Data - RCR 2 | | | |
|----------------------------|-----------------------|-------------|---------|
| Spacing | Initial Watts/On Ctr. | Footcandles | Sq. Ft. |
| 5' | 83.2 | 1.75 | |
| 6' | 54.6 | 1.15 | |
| 7' | 39.0 | 0.82 | |
| 8' | 32.5 | 0.68 | |
| 9' | 26.0 | 0.55 | |

38'x38'x10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

CERTIFIED TEST REPORT NO. F10019³

¹ Correlated Color Temperature within specs as defined in ANSI/NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid-State Lighting Products.
² Wattage controlled to within 5%.
³ Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
⁴ Color Rendering Index within +/- 2%.

| | |
|------------------------|--------------|
| Job Information | Type: |
|------------------------|--------------|