Latitudes Series

Surgical Suite Clean Room 8" Downlight • LED
Up to 60,000 Hour Rated Life • Wet Listed

LRR-08466

Specifications

Delivered System Performance
- Lumen Series: **Must Specify**
  Non-IC
  - **-6500L**
  - **-5000L**
  - **-3500L**
  - **-2500L**
- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 60,000 Hour Rated Life (L70)

Thermal Protection: SPECIFY VOLTAGE
- Thermal protector for insulation detection per UL/NEC. Must specify input voltage

Thermal Management System
- Aluminum heat sink and components for cool operation, long life, and low maintenance

LED Driver - INTERNAL
- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR 10% dimming standard
- 120-277V / 50-60 Hz standard; load insensitive

Trim Assembly
- Rustproof 100% aluminum grooveles, smooth, self-flanged white trim
- Kirlin BioGard antimicrobial finish continuously inhibits growth of bacteria on the coating of the trim.
- Regressed tempered prismatic spread lens

IP65 Sealed and Gasketed
- Liquid silicone seal between trim and lens
- Closed cell housing flange gasketing seals trim to housing
- Closed cell trim flange gasketing seals flange to ceiling
- Closed cell gasketing on bottom pan seals housing to ceiling
- O-rings seal stainless steel fasteners to trim

Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

Outlet Box (Galvanized)
- UL Listed, 14GA, insulated, removable cover
- ½" and ¾" knockouts

Installation & Hardware
- Indoor/outdoor in ceilings up to 1⅛" thick
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

UL, C-UL (Canada) Listings
- UL Listed: wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C)

IEC & FCC Compliance
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty
- Complete standard fixture

Options and Ordering Configuration
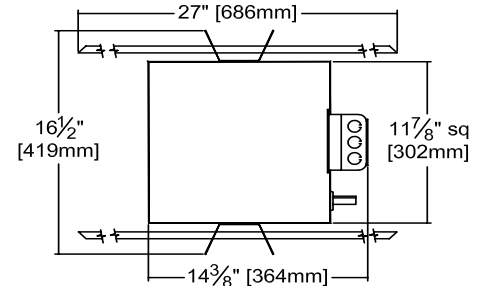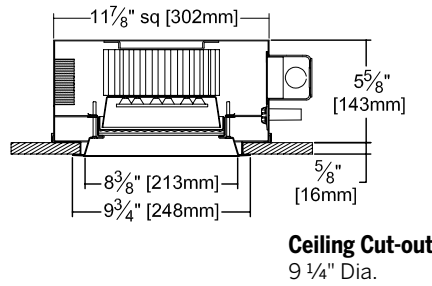
(Example: LRR-08466-3500L-120-MFL-30K-13-RH-NAT)

IP65 IP65	**CCEA Approved** Chicago Plenum Approved
NSF Certified	**Made in the USA** BABAA Compliant
Natatorium See Option -NAT	**FCC Part 15 Certified**
UL Listed Wet, Damp, Dry	**BioGard™** See Option -BG
ISO 5/Class 100 See Option -SH	

Must Specify					Optional			
Model	**Lumens**	**Volts**	**Beam**	**CCT† & CRI**	**Driver Options**	**Emergency Options**	**Trim Options**	**Other Options**
LRR-08466	**-6500L** **-5000L** **-3500L** **-2500L**	**-120** **-277** **-97†:** Other Voltage	**(Blank):** MFL **-NFL** **-MFL** **-WFL**	**(Blank):** 3500K, 80+ CRI **80+ CRI*** **-27K:** 2700°K **-30K:** 3000°K **-35K:** 3500°K **-41K:** 4000°K **-50K:** 5000°K ***Note:** Lumen Factor = 0.93 for -27K **90+ CRI**** **-27K-HC:** 2700°K **-30K-HC:** 3000°K **-35K-HC:** 3500°K **-41K-HC:** 4000°K **-50K-HC:** 5000°K ****Note:** Lumen Factor = 0.79 for -27K-HC; All Others = 0.85; Consult factory	**(Blank):** Standard 0-10V CCR 10% dim **-D1:** 0-10V 1.0% dim **-D2:** 0-10V 0.1% dim **-D3:** DALI 1.0% dim **-D4:** DALI 100-0.1% dim **-D5:** DMX512A 0% dimming instead. Consult factory for -6500L lumen series **-D40:** -40°C (-40°F) driver; 0-10V 10% dimming instead for -3500L and -2500L **-ECO:** Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory; -3500L max	**(Blank):** None **-EI:** Remote emergency inverter for 40% of rated lumens for -6500L, 50% for -5000L, and -3500L. Not available for -2500L. Run time: 90+ minutes. 120 or 277V, 60 Hz input only. Specify voltage. Not for use with option -FS **-EM:** Internal emergency battery pack; Delivers 500 lumens; Run time: 90+ minutes. Not available with -6500L **-ERH:** Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes	**(Blank):** Standard white trim with Kirlin BioGard antimicrobial finish **Trim Finishes** **-94:** Custom color; consult factory **Other Trim Features** **-13:** Clear poly lens below standard lens. Photometric distribution unaffected **-23:** Frosted microprismatic lens **-CF:** Custom color filter (Rosco); Specify **-GE:** Green acrylic filter mounted in lens assembly **-NS:** NSF approved fixture **-WA:** White acrylic (flat) diffuser instead; will produce wide flood distribution	**(Blank):** None **Mounting** **-RH:** Joist mounting hardware instead **Other Options** **-99:** Special modification; consult factory **-AWN:** Athena Wireless Node; N/A for Dimming Options -D5, -D40, -ECO **-FS:** Fused primary; One per fixture; N/A for option -EI **-NAT:** Modified for natatorium use ***Note:** For other integrated control solutions, such as nLight, contact factory
		†Consult factory						

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Performance Factors

NOMINAL LUMENS	LUMEN FACTOR	NOMINAL WATTS	LPW FACTOR
-6500L	1.00	72.9	1.00
-5000L	0.85	56.7	1.09
-3500L	0.68	42.4	1.17
-2500L	0.48	36.9	0.96

Dimensions

11⅞" sq [302mm]

5⅝" [143mm]

8⅜" [213mm]
9¾" [248mm]
⅝" [16mm]

Ceiling Cut-out
9 ¼" Dia.

27" [686mm]

16½" [419mm]

11⅞" sq [302mm]

14⅜" [364mm]

* See notes on page 1 for additional info on Lumen Factors

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

-6500L-MFL

Lumens: 6257
LPW: 86
Beam: ~43°
SC: 0.8
ITL Test: 86323

Cone of Light ▲

Dist.	FC	Dia.
6	234.9	4.8
8	132.1	6.4
10	84.6	8.0
12	58.7	9.6
14	43.1	11.1
16	33.0	12.7

2700 / 5400 / 8100

Nominal Lumens	Actual Lumens	Actual LPW
6500L	6257	85.8
5000L	5310	93.7
3500L	4259	100.4
2500L	3030	82.1

-6500L-WFL

Lumens: 5292
LPW: 72
Beam: ~49°
SC: 0.9
ITL Test: 86325

Cone of Light ▲

Dist.	FC	Dia.
6	105.8	5.5
8	59.5	7.3
10	38.1	9.1
12	26.5	11.0
14	19.4	12.8
16	14.9	14.6

1200 / 2400 / 3600

Nominal Lumens	Actual Lumens	Actual LPW
6500L	5292	72.2
5000L	4416	74.3
3500L	3541	79.8

-6500L-NFL

Lumens: 6015
LPW: 83
Beam: ~25°
SC: 0.5
ITL Test: 86324

Cone of Light ▲

Dist.	FC	Dia.
6	459.7	2.7
8	258.6	3.6
10	165.5	4.5
12	114.9	5.4
14	84.4	6.3
16	64.6	7.2

5500 / 11000 / 16500

Nominal Lumens	Actual Lumens	Actual LPW
6500L	6015	82.6
5000L	5298	88.9
3500L	4249	95.3
2500L	3010	82.5

LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

▲ Cone of Light Key
Dia. (in ft.) shown is where FC value is half the FC at nadir.

Dist. Distance (Ft.) from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

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LATITUDES
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