CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

6" Regress White Trim Lensed Downlight
Up to 90,000 Hour Life • Type IC
LM-80 Qualified • LM-79 Certified Photometry

MRR-06235

Specifications

Delivered System Performance
- **Lumens: -1500L** (20W); 1500 nominal lumens
- Distribution: MFL standard; optional: -SPT, -NFL, or -WFL
- Color temperature: 3500°K standard; optional: -27K, -30K, -41K, or -50K
- CRI: 80+ standard; optional: -HC (90+)
- 90,000 hour life (L70**)
- Fully sustainable: removable for servicing

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

SmartLED™ MRI Lighting System Required
- Kirlin remote driver modules, cabinet, and RFI filters required for operation
- Components ordered separately, see below for driver information and **MRI-CABNT** for additional components
- The **MRI Configurator** can help determine the necessary components
- SmartLED driver modules provide 0-10V dimming to 0.38%

SmartLED™ Emergency Backup System
- **EMI-21220** or **EMI-03120** available for emergency power
- See specification sheet; order separately

Trim and Lens Assembly
- White finished (field paintable) aluminum self-flanged trim
- Regressed tempered prismatic spread lens

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

Outlet Box (Aluminum)
- UL listed J-box; prewired with ½" knockouts

Installation & Hardware
- Requires minimum 18 AWG twisted pair shielded wire from SmartLED™ MRI Lighting System to fixtures
- Recesses in ceilings up to 1-1/8" thick or see Option -79
- Aluminum 27" hanger bars with adjustable mounting brackets (2) supplied.

UL, C-UL (Canada) Listings
- Wet, damp or dry locations, covered ceilings
- Type IC: for direct contact with insulation

IEC & FCC Compliance
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty
- Complete fixture, must be installed with all SmartLED™ components

Made in the USA *BABAA Compliant* | **BioGard™** *See Option -BGT* | **FC** FCC Part 15 Certified | **UL Listed** Wet, Damp, Dry

Options and Ordering Configuration
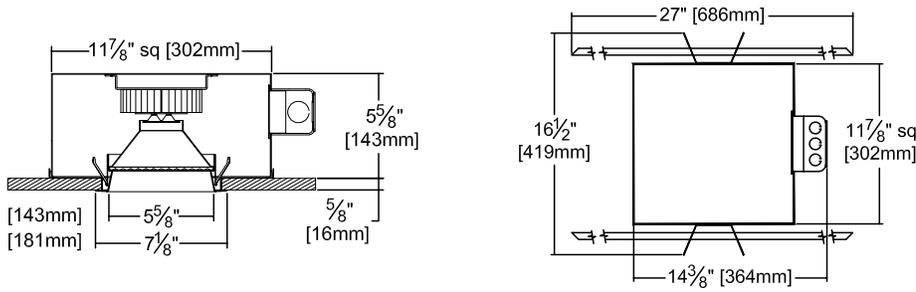
(Example: MRR-06235-1500L-30K-NFL)

Must Specify		Optional			
Model	**Lumens**	**CCT & CRI**	**Beam**	**Trim & Lens Options**	**Other Options**
MRR-06235					
	-1500L	**(Blank):** 35K, 80+ CRI	**(Blank):** MFL	**(Blank):** White self-flanged downlight cone with lens above	**(Blank):** None
		80+ CRI	-SPT	**Trim Finishes**	**Mounting**
		-27K: 2700°K	-NFL	**-BGT:** BioGard anti-microbial white	**-79:** Extension collar; ceilings up to 2" thick
		-30K: 3000°K	-MFL	**-BKBG:** BioGard anti-microbial black	**Other Options**
		-35K: 3500°K	-WFL	**-94:** Custom color; consult factory	**-99:** Special modification; consult factory
		-41K: 4000°K		**-94BG:** BioGard anti-microbial custom color finish	
		-50K: 5000°K		**Other Trim Features**	
		90+ CRI		**-32:** White trim extender, specify OD	
		-27K-HC: 2700°K		**-45:** Gasket between trim flange and ceiling	
		-30K-HC: 3000°K		**-46:** Gasket between trim and lens	
		-35K-HC: 3500°K		**Lens Options**	
		-41K-HC: 4000°K		**-WA:** White acrylic (flat) diffuser instead; will produce wide flood distribution	
		-50K-HC: 5000°K			

*See note next page

Projected L70** for Kirlin Luminaires	
In Open Plenum	90,000 hours
In Insulation (Type IC)	60,000 hours
**Hours at 70% lumen maintenance	

DUE TO CONTINUING PRODUCT IMPROVEMENTS, KIRLIN LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE. VISIT WWW.KIRLINLIGHTING.COM FOR THE MOST CURRENT DATA.

Dimensions

11⅞" sq [302mm]
5⅝" [143mm]
[143mm]
[181mm]
5⅝"
7⅛"
⅝" [16mm]
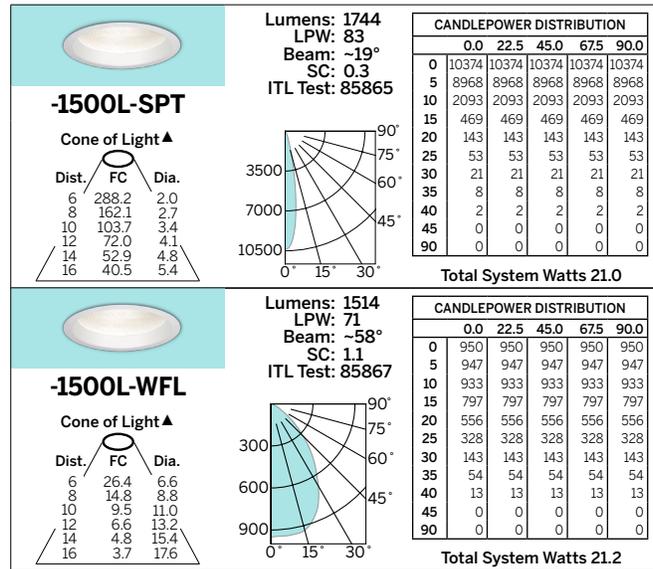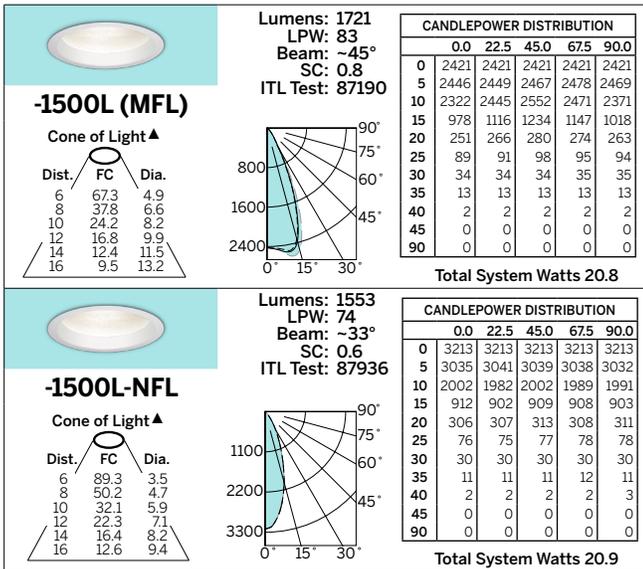
27" [686mm]
16½" [419mm]
11⅞" sq [302mm]
14⅜" [364mm]

Ceiling Cut-out
6¾" Dia.

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

Photometry from I.T.L., Boulder, CO

▲ **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

-1500L (MFL)

Lumens: 1721
LPW: 83
Beam: ~45°
SC: 0.8
ITL Test: 87190

Cone of Light ▲

Dist.	FC	Dia.
6	67.3	4.9
8	37.8	6.6
10	24.2	8.2
12	16.8	9.9
14	12.4	11.5
16	9.5	13.2

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2421	2421	2421	2421	2421
5	2446	2449	2467	2478	2469
10	2322	2445	2552	2471	2371
15	978	1116	1234	1147	1018
20	251	266	280	274	263
25	89	91	98	95	94
30	34	34	34	35	35
35	13	13	13	13	13
40	2	2	2	2	2
45	0	0	0	0	0
90	0	0	0	0	0

Total System Watts 20.8

-1500L-SPT

Lumens: 1744
LPW: 83
Beam: ~19°
SC: 0.3
ITL Test: 85865

Cone of Light ▲

Dist.	FC	Dia.
6	288.2	2.0
8	162.1	2.7
10	103.7	3.4
12	72.0	4.1
14	52.9	4.8
16	40.5	5.4

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10374	10374	10374	10374	10374
5	8968	8968	8968	8968	8968
10	2093	2093	2093	2093	2093
15	469	469	469	469	469
20	143	143	143	143	143
25	53	53	53	53	53
30	21	21	21	21	21
35	8	8	8	8	8
40	2	2	2	2	2
45	0	0	0	0	0
90	0	0	0	0	0

Total System Watts 21.0

-1500L-NFL

Lumens: 1553
LPW: 74
Beam: ~33°
SC: 0.6
ITL Test: 87936

Cone of Light ▲

Dist.	FC	Dia.
6	89.3	3.5
8	50.2	4.7
10	32.1	5.9
12	22.3	7.1
14	16.4	8.2
16	12.6	9.4

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	3213	3213	3213	3213	3213
5	3035	3041	3039	3038	3032
10	2002	1982	2002	1989	1991
15	912	902	909	908	903
20	306	307	313	308	311
25	76	75	77	78	78
30	30	30	30	30	30
35	11	11	11	12	11
40	2	2	2	2	3
45	0	0	0	0	0
90	0	0	0	0	0

Total System Watts 20.9

-1500L-WFL

Lumens: 1514
LPW: 71
Beam: ~58°
SC: 1.1
ITL Test: 85867

Cone of Light ▲

Dist.	FC	Dia.
6	26.4	6.6
8	14.8	8.8
10	9.5	11.0
12	6.6	13.2
14	4.8	15.4
16	3.7	17.6

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	950	950	950	950	950
5	947	947	947	947	947
10	933	933	933	933	933
15	797	797	797	797	797
20	556	556	556	556	556
25	328	328	328	328	328
30	143	143	143	143	143
35	54	54	54	54	54
40	13	13	13	13	13
45	0	0	0	0	0
90	0	0	0	0	0

Total System Watts 21.2

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

SmartLED™ MRI Driver Modules

Fully Digital Controlled Power Source for LED Luminaires

Mounted in Kirlin's **MRI-CABNT**

Drivers wired in series

Driver Module	Maximum Capacity	Fixture Load Examples
DVR-1400A	Up to Qty 2: 1500L Luminaires	• Qty 1: MRR-06235-1500L • Qty 2: MRR-06235-1500L • Qty 1: MRR-06205-1500L and Qty 1: MRR-06235-1500L

SmartLED MRI
OCTOBER 2024