

CATALOG #	TYPE
JOB NAME	WATTAGE VOLTAGE

8" LED 4550 LUMENS

74 SYSTEM WATTS

LRR-08467

Surgical Suite Clean Room LED Downlight

Up to 60,000 Hour Life • Wet Location • Available 74W, 55W, 42W



Specifications

LED Light Engine*

- 74 watt LED array. 3500°K standard (or see Options -30K or -41K).
- 4550* lumens, 61 lumens per watt (total system).
- Up to 83 CRI, up to 60,000 hour life (L70). For 90+ CRI, see Option -HC.
- Fully sustainable: removable for servicing.

Thermal Management System

- All aluminum proprietary heat sink, components and housing maximize cool operation and long life while minimizing maintenance.

LED Power Supply

- Suitable for outdoor / indoor use: -30°C (-22°F) to 60°C (140°F).
- 120-277V / 50-60Hz standard. Load insensitive.
- 0-10V CCR dimming standard. (1% to 100%).
- Kirlin remote SmartSupply™ driver instead, see Option -SS for restrictions and details.

Thermal Protection: SPECIFY VOLTAGE

- Thermal protector for insulation detection per UL/NEC. Must specify input voltage.

Trim / Lens Assembly

- Rustproof 100% aluminum grooveless, smooth, self-flanged white trim.

- Kirlin BioGuard™ antimicrobial finish continuously inhibits growth of bacteria on the coating of the trim.
- Regressed tempered prismatic C#73 spread lens. Standard MFL distribution (0.8 SC).
- See Options for -NFL (0.4 SC) with tempered microprismatic glass lens or -WFL (1.0 SC).
- See Option -GE for green acrylic filter.

5X Sealed and Gasketed

- (1) Silicone seal between trim and lens seals lens to trim, (2) closed cell gasketing between trim and housing flange seals trim to housing, (3) closed cell gasketing on trim flange seals flange to ceiling (4) closed cell gasketing on bottom pan seals housing to ceiling and (5) neoprene O-rings on stainless steel fasteners seal fasteners to trim.
- Meets ASTM E288 restricted airflow of 2 CFM maximum.

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow depth fits restricted plenums.
- Cool operation: Extends life of all components.
- Fully sustainable: Entire luminaire, including LED light engine, is modular, easily visible and serviced through aperture.
- Built-in plaster flange.
- Sealed housing and junction box.

Outlet Box

- UL listed J-box with insulated removable cover. Prewired 14 GA (NEC) with 1/2" and 3/4" knockouts.

Installation

- Recess indoor or outdoor.
- Accommodates ceilings up to 1/4" thick or see Option -79.
- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- For residential mounting hardware for wood joist ceilings, see Option -RH.

UL C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (4 #12 AWG 90°C).

CE & FCC Compliance

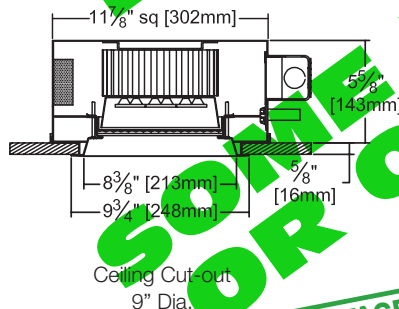
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.

FIVE YEAR

Limited Warranty

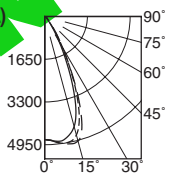
- Complete standard fixture.

Performance at a Glance



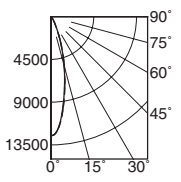
STANDARD (MFL) DISTRIBUTION

Lumens: 3650
Beam: ~46°
SC: 0.8
Effic: 79.9%
ITL Test: 73096



Option -NFL

Lumens: 3737
Beam: ~25°
SC: 0.4
Effic: 81.8%
ITL Test: 73147

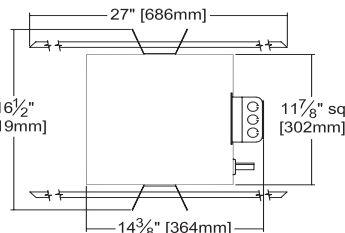


Option -WFL

SC: 1.0



SPECIFY VOLTAGE



THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

*See note next page

LED LIGHTING

MAX. LUMENS

MAX. SYSTEM WATTS

CATALOG NUMBER

4550

74

LRR-08467

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

Detailed Photometry - Installed Fixture

Photometric testing done in accordance with IESNA LM-79-08

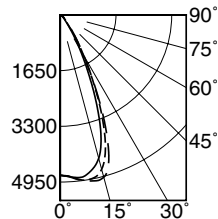
Photometry from I.T.L., Boulder, CO

STANDARD (MFL) (74W)

 Lumens: 3650
 Beam: ~46°
 SC: 0.8
 Effic: 79.9%
 ITL Test: 73096


Cone of Light ▲

Dist.	FC	Dia.
6	131.9	5.1
8	74.2	6.8
10	47.5	8.5
12	33.0	10.2
14	24.2	11.9
16	18.6	13.6



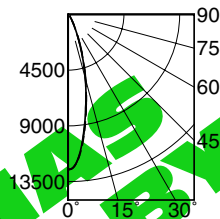
	0.0	22.5	45.0	67.5	90.0
0	4749	4749	4749	4749	4749
5	4855	4863	4864	4845	4829
15	4733	4884	4977	4638	4397
25	2527	2599	2611	2252	2100
35	663	705	738	600	533
45	173	188	214	177	163
55	97	100	105	98	96
65	54	55	56	55	55
75	17	19	21	19	17
85	3	3	3	3	3
90	0	0	0	0	0

Option -NFL (74W)

 Lumens: 3737
 Beam: ~25°
 SC: 0.4
 Effic: 81.8%
 ITL Test: 73147


Cone of Light ▲

Dist.	FC	Dia.
6	347.9	2.7
8	195.7	3.5
10	125.3	4.4
12	87.0	5.3
14	63.9	6.2
16	48.9	7.1



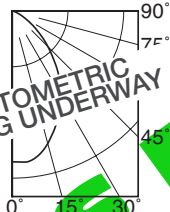
	0.0	22.5	45.0	67.5	90.0
0	12526	12526	12526	12526	12526
5	11228	11200	11177	11130	11127
15	5366	5406	5455	5376	5314
25	1496	1533	1622	1543	1503
35	347	378	423	394	364
45	145	159	179	166	151
55	86	95	106	99	91
65	44	48	54	50	44
75	15	16	19	16	15
85	1	1	3	1	1
90	0	0	0	0	0

Option -WFL (74W)

 Lumens:
 Beam:
 SC: 1.0
 Efficiency:
 ITL Test:

Cone of Light ▲

Dist.	FC	Dia.
6		
8		
10		
12		
14		
16		



	0.0	22.5	45.0	67.5	90.0
0					
5					
15					
25					
35					
45					
55					
65					
75					
85					
90					

 See following page for
 Option -43: Lower Wattage
 performance for 55W and 42W

LM-80 Qualified • LM-79 Certified Photometry

* LED manufacturers maintain a tolerance of ±7% on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from independent Testing Laboratories (ITL) where photometry was measured from 4567 lumen (74W) light engines (within the established tolerance).

▲ Cone of Light Key
 Ft. Distance from fixture
 FC Footcandles at nadir (0°)
 Dia. Circle of light at 50% of FC
 Dia. (in ft.) shown is where FC value is half the FC at nadir.

Options
LED Power Supply

- 120 120V (50-60Hz) input for thermal protector.
- 277 277V (50-60Hz) input for thermal protector.
- 39 Specify "-39(Lutron)" for HiLume 3 wire full range (0-100%) PWM dimming instead. Available with standard 74W or optional lower wattages.
- 43 55 watt / 3900 lumen OR 42 watt / 2650 lumen package instead. See performance next page. Also see -39.
- 97 Specify other voltage. Consult factory.
- EI Remote emergency inverter for 45% of rated lumens for 74W or 85% for -43(42W) Not available for -43(55W). Run time: 90+ minutes. 120 or 277V, 60Hz input only. Specify voltage. Not for use with -SS SmartSupply™ driver.

- SS Remote mounted Kirlin SmartSupply™ driver for 74W or 42W only. Sold separately. Drives up to 3 (74W) or 6 (42W) luminaires. Order LPS-1220A (0-10V analog for 0-100% PWM dimming). Consult factory or see www.kirlinlighting.com for more information.

Color Temperature (CCT)

- 30K Color temperature 3000°K instead.
- 41K Color temperature 4100°K instead.
- HC 90+ CRI instead. 3000°K only. Consult factory for availability.

Optics

- NFL Narrow flood distribution. (0.4 SC)
- WFL Wide flood distribution. (1.0 SC)

Trims

- 32 White oversize trim ring. Specify O.D.
- 33 Decorative Glow Ring suspended trim assembly. Consult factory.
- 94 Custom color/finish. Specify. Consult factory.

Other

- 79 Extension collar for up to 2" thick ceilings.
- 99 Special modification. Consult factory.
- RH Residential mounting hardware instead. Suitable for wood joist ceilings with spacing from 14 1/8" to 25 7/8" with 5/8" vertical adjustability.

SUBMITTAL DATA
APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

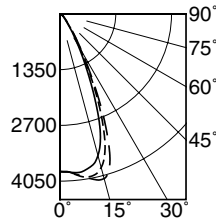
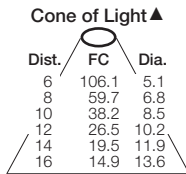
Detailed Photometry - Installed Fixture

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

OPTION -43: LOWER WATTAGE 55 WATT

Option -43(55W) STANDARD (MFL)

Lumens: 2961
Beam: ~46°
SC: 0.8
Effic: 75.8%
ITL Test: 73810

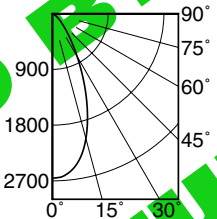


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	3819	3819	3819	3819	3819
5	3892	3885	3885	3862	3857
15	3851	4023	4128	3769	3549
25	1946	2052	2119	1807	1634
35	520	537	560	483	445
45	169	178	191	166	153
55	88	91	94	86	83
65	44	44	44	43	42
75	11	11	11	11	11
85	2	2	2	2	2
90	0	0	0	0	0

OPTION -43: LOWER WATTAGE 42 WATT

Option -43(42W) STANDARD (MFL)

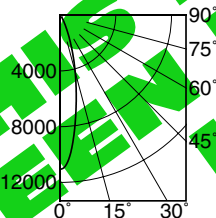
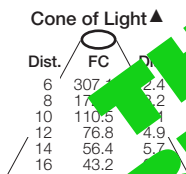
Lumens: 1985
Beam: ~41°
SC: 0.7
Effic: 75.0%
ITL Test: 72308



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2658	2658	2658	2658	2658
5	2604	2604	2604	2604	2604
15	2088	2088	2088	2088	2088
25	1190	1190	1190	1190	1190
35	514	514	514	514	514
45	211	211	211	211	211
55	88	88	88	88	88
65	32	32	32	32	32
75	9	9	9	9	9
85	3	3	3	3	3
90	0	0	0	0	0

Options -43(55W)-NFL

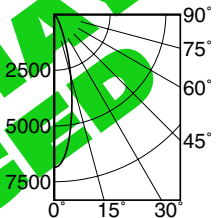
Lumens: 2999
Beam: ~23°
SC: 0.4
Effic: 76.8%
ITL Test: 73809



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	11054	11054	11054	11054	11054
5	9610	9610	9610	9610	9610
15	4206	4206	4206	4206	4206
25	1188	1188	1188	1188	1188
35	326	326	326	326	326
45	142	142	142	142	142
55	78	78	78	78	78
65	36	36	36	36	36
75	10	10	10	10	10
85	2	2	2	2	2
90	0	0	0	0	0

Options -43(42W)-NFL

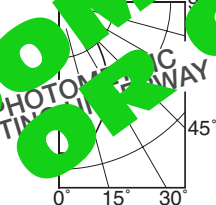
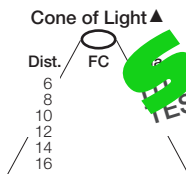
Lumens: 2009
Beam: ~25°
SC: 0.4
Effic: 75.0%
ITL Test: 72307



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	6847	6847	6847	6847	6847
5	6149	6149	6149	6149	6149
15	2816	2816	2816	2816	2816
25	817	817	817	817	817
35	250	250	250	250	250
45	102	102	102	102	102
55	47	47	47	47	47
65	16	16	16	16	16
75	4	4	4	4	4
85	0	0	0	0	0
90	0	0	0	0	0

Options -43(55W)-WFL

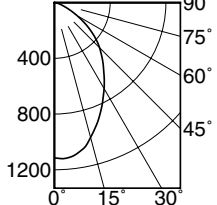
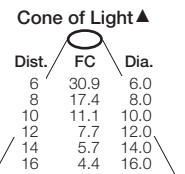
Lumens:
Beam:
SC: 1.0
Efficiency:
ITL Test:



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0					
5					
15					
25					
35					
45					
55					
65					
75					
85					
90					

Options -43(42W)-WFL

Lumens: 1911
Beam: ~53°
SC: 1.0
Effic: 72.2%
ITL Test: 73067



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1114	1114	1114	1114	1114
5	1118	1118	1118	1118	1118
15	1002	1002	1002	1002	1002
25	810	810	810	810	810
35	619	619	619	619	619
45	458	458	458	458	458
55	279	279	279	279	279
65	114	114	114	114	114
75	35	35	35	35	35
85	9	9	9	9	9
90	0	0	0	0	0

LM-80 Qualified • LM-79 Certified Photometry

* LED manufacturers maintain a tolerance of ±7% on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from Independent Testing Laboratories (ITL) where photometry was measured from 3906 lumen (55W) and 2648 lumen (42W) light engines (within the established tolerance).

▲ Cone of Light Key
(Dia. (in ft.) shown is where FC value is half the FC at nadir.)
Ft. Distance from fixture
FC Footcandles at nadir (0°)
Dia. Circle of light at 50% of FC

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