

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P688065

Luminaire Tested: FLR-MC-24-L3C3 (HI)-35-CP375

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR-MC-24-L3C3 (HI)-35-CP375
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 3500K Luminaire at High Lumen setting for Medical/Cleanroom
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

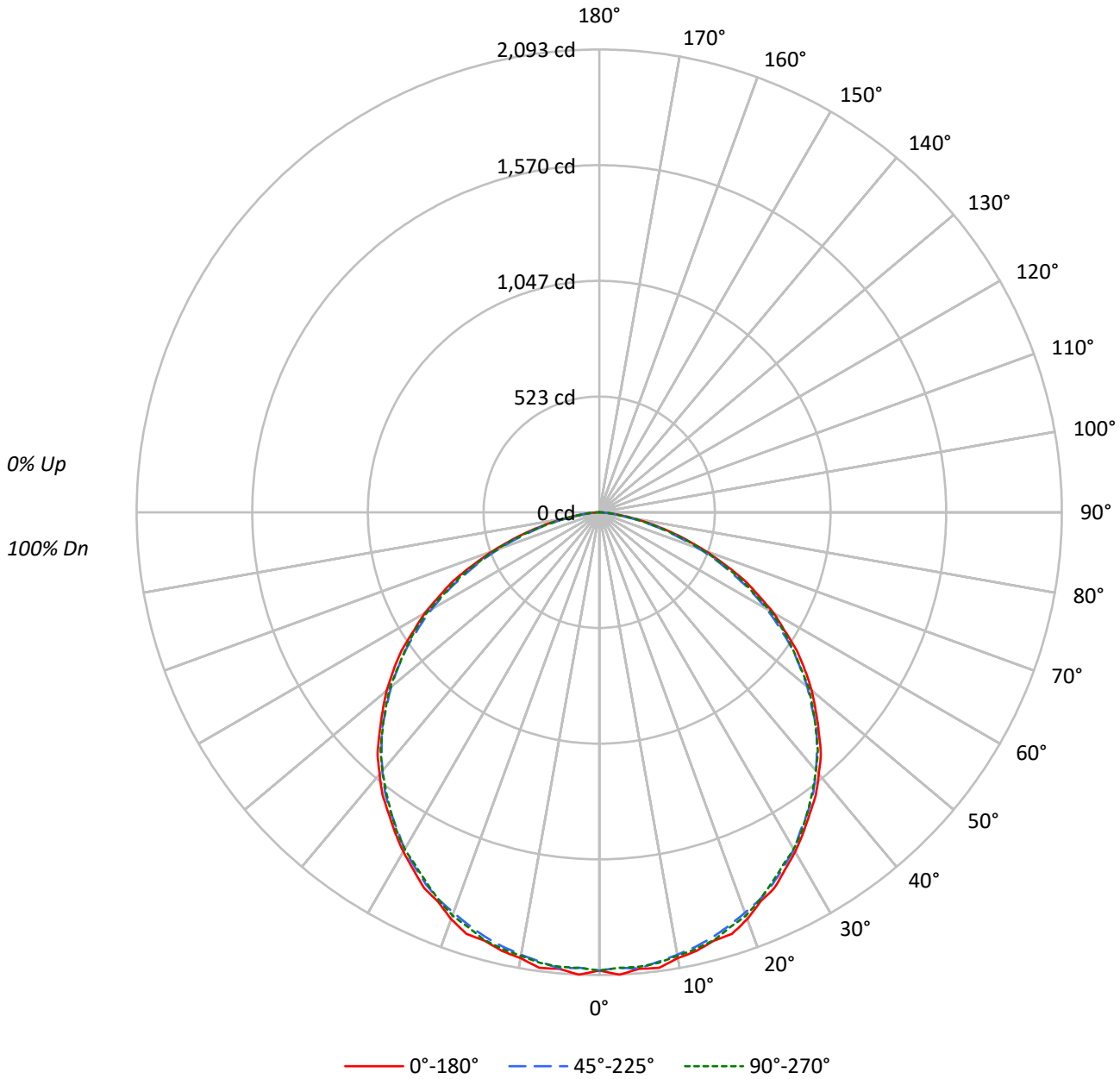
Lumens per Lamp: N/A
Luminaire Lumens: 5712.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85	85	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71	71	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60	60	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45	45	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39	39	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2789	2789	2789
5°	2799	2796	2787
10°	2798	2776	2784
15°	2794	2770	2791
20°	2804	2760	2779
25°	2784	2755	2743
30°	2754	2735	2733
35°	2729	2709	2703
40°	2715	2681	2679
45°	2673	2645	2637
50°	2627	2572	2589
55°	2560	2483	2496
60°	2451	2350	2405
65°	2296	2148	2216
70°	2011	1881	1952
75°	1665	1500	1582
80°	1179	1056	1100
85°	596	526	560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	3.4
10°-20°	563.1	9.9
20°-30°	855.0	15.0
30°-40°	1031.8	18.1
40°-50°	1069.7	18.7
50°-60°	947.7	16.6
60°-70°	676.4	11.8
70°-80°	320.4	5.6
80°-90°	52.5	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1614.2	28.3
0°-40°	2646.0	46.3
0°-60°	4663.4	81.6
0°-90°	5712.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5712.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2073	2062	2070	2056	2064	198
15°	2006	1994	1989	2000	2003	569
25°	1875	1844	1856	1857	1848	862
35°	1662	1644	1649	1642	1646	1042
45°	1405	1384	1390	1386	1386	1085
55°	1091	1061	1058	1054	1064	970
65°	721	675	675	679	696	705
75°	320	294	288	295	304	341
85°	39	35	34	33	36	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2093.1	2056.8	2062.4	2067.0	2062.4
5°	2072.7	2062.4	2070.4	2055.6	2063.6
7.5°	2078.3	2053.4	2050.0	2045.4	2055.6
10°	2047.7	2032.9	2031.8	2039.7	2037.5
12.5°	2031.8	2019.3	2012.5	2013.6	2022.7
15°	2005.7	1994.3	1988.6	2000.0	2003.4
17.5°	1998.8	1959.1	1959.1	1961.4	1968.2
20°	1958.0	1931.8	1927.3	1931.8	1940.9
22.5°	1905.7	1896.6	1896.6	1900.0	1897.8
25°	1875.1	1844.4	1855.7	1856.9	1847.8
27.5°	1821.7	1810.3	1808.0	1803.5	1800.1
30°	1772.8	1754.7	1760.4	1760.4	1759.2
32.5°	1718.3	1705.8	1700.2	1701.3	1707.0
35°	1661.5	1644.5	1649.1	1642.2	1645.6
37.5°	1610.4	1587.7	1592.3	1588.9	1585.5
40°	1545.7	1527.5	1526.4	1520.7	1525.3
42.5°	1484.4	1458.3	1457.1	1458.3	1463.9
45°	1404.9	1384.4	1390.1	1385.6	1385.6
47.5°	1328.8	1315.2	1304.9	1306.1	1310.6
50°	1255.0	1228.8	1228.8	1219.8	1236.8
52.5°	1173.2	1147.1	1143.7	1147.1	1144.8
55°	1091.4	1060.8	1058.5	1053.9	1064.2
57.5°	992.6	963.1	965.4	967.6	982.4
60°	910.8	871.1	873.4	875.6	893.8
62.5°	809.8	776.8	775.7	779.1	783.6
65°	721.2	674.6	674.6	679.2	696.2
67.5°	608.7	580.3	579.2	584.9	591.7
70°	511.1	478.1	478.1	484.9	496.3
72.5°	413.4	386.1	381.6	391.8	399.8
75°	320.3	294.1	288.5	295.3	304.4
77.5°	229.4	212.4	207.8	214.6	216.9
80°	152.2	137.4	136.3	139.7	142.0
82.5°	87.4	78.4	75.0	78.4	79.5
85°	38.6	35.2	34.1	32.9	36.3
87.5°	9.1	9.1	9.1	9.1	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)