

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: P688067

Luminaire Tested: FLR-MC-24-L3C3 (HI)-50-CP375

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688067
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)-50-CP375
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 5000K Luminaire at High Lumen setting for Medical/Cleanroom
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

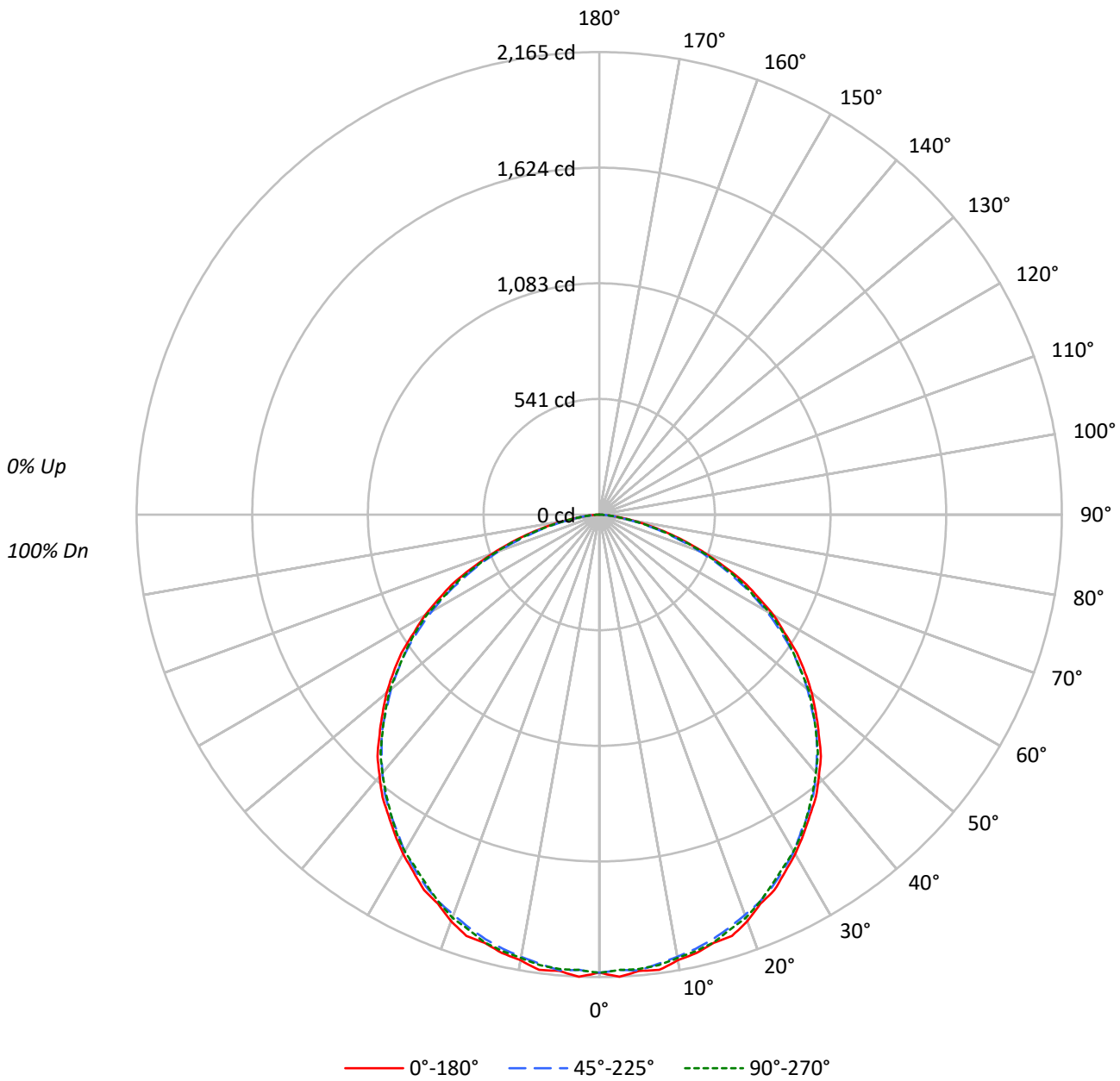
Lumens per Lamp: N/A
Luminaire Lumens: 5910.1 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2885	2885	2885
5°	2896	2893	2883
10°	2894	2872	2880
15°	2890	2866	2887
20°	2900	2855	2875
25°	2880	2850	2838
30°	2850	2829	2828
35°	2823	2802	2796
40°	2809	2774	2772
45°	2766	2736	2727
50°	2718	2661	2678
55°	2649	2569	2582
60°	2536	2431	2488
65°	2375	2222	2293
70°	2080	1946	2020
75°	1722	1551	1637
80°	1220	1093	1138
85°	616	543	580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2766 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	3.4
10°-20°	582.5	9.9
20°-30°	884.5	15.0
30°-40°	1067.5	18.1
40°-50°	1106.7	18.7
50°-60°	980.4	16.6
60°-70°	699.8	11.8
70°-80°	331.5	5.6
80°-90°	54.3	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°	1670.0	28.3
0°-40°	2737.5	46.3
0°-60°	4824.5	81.6
0°-90°	5910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5910.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2144	2134	2142	2127	2135	205
15°	2075	2063	2057	2069	2073	588
25°	1940	1908	1920	1921	1912	892
35°	1719	1701	1706	1699	1702	1078
45°	1453	1432	1438	1433	1433	1122
55°	1129	1097	1095	1090	1101	1004
65°	746	698	698	703	720	729
75°	331	304	298	306	315	353
85°	40	36	35	34	38	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2144.3	2144.3	2144.3	2144.3	2144.3
2.5°	2165.4	2127.8	2133.7	2138.4	2133.7
5°	2144.3	2133.7	2141.9	2126.7	2134.9
7.5°	2150.1	2124.3	2120.8	2116.1	2126.7
10°	2118.4	2103.2	2102.0	2110.2	2107.9
12.5°	2102.0	2089.1	2082.0	2083.2	2092.6
15°	2075.0	2063.2	2057.3	2069.1	2072.6
17.5°	2067.9	2026.8	2026.8	2029.1	2036.2
20°	2025.6	1998.6	1993.9	1998.6	2008.0
22.5°	1971.6	1962.2	1962.2	1965.7	1963.3
25°	1939.8	1908.1	1919.9	1921.0	1911.6
27.5°	1884.6	1872.9	1870.5	1865.8	1862.3
30°	1834.1	1815.3	1821.2	1821.2	1820.0
32.5°	1777.7	1764.8	1758.9	1760.1	1765.9
35°	1718.9	1701.3	1706.0	1699.0	1702.5
37.5°	1666.1	1642.6	1647.3	1643.7	1640.2
40°	1599.1	1580.3	1579.1	1573.3	1578.0
42.5°	1535.7	1508.6	1507.5	1508.6	1514.5
45°	1453.4	1432.3	1438.1	1433.4	1433.4
47.5°	1374.7	1360.6	1350.0	1351.2	1355.9
50°	1298.3	1271.3	1271.3	1261.9	1279.5
52.5°	1213.7	1186.7	1183.2	1186.7	1184.3
55°	1129.1	1097.4	1095.0	1090.3	1100.9
57.5°	1026.9	996.4	998.7	1001.1	1016.3
60°	942.3	901.2	903.5	905.9	924.7
62.5°	837.7	803.7	802.5	806.0	810.7
65°	746.1	697.9	697.9	702.6	720.2
67.5°	629.8	600.4	599.2	605.1	612.1
70°	528.7	494.7	494.7	501.7	513.5
72.5°	427.7	399.5	394.8	405.4	413.6
75°	331.3	304.3	298.4	305.5	314.9
77.5°	237.3	219.7	215.0	222.1	224.4
80°	157.4	142.2	141.0	144.5	146.9
82.5°	90.5	81.1	77.5	81.1	82.2
85°	39.9	36.4	35.2	34.1	37.6
87.5°	9.4	9.4	9.4	9.4	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)