

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: P688335

Luminaire Tested: FLR-MC-24-L3C3 (HI)-35-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-12)
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-CP125
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

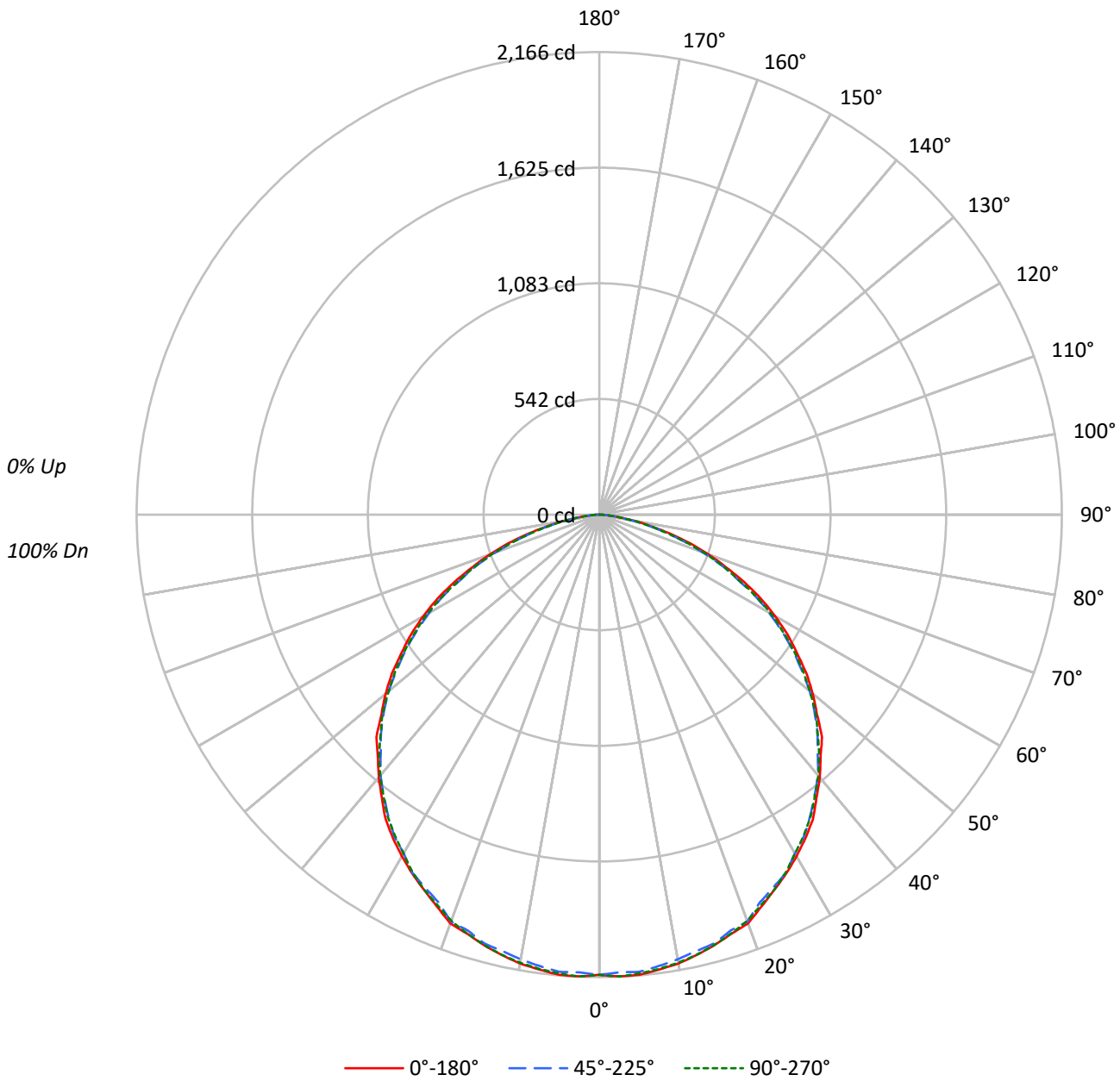
Lumens per Lamp: N/A
Luminaire Lumens: 5979.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	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	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	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°	2900	2900	2900
5°	2922	2903	2913
10°	2917	2889	2911
15°	2908	2896	2906
20°	2917	2904	2899
25°	2880	2861	2878
30°	2871	2846	2848
35°	2863	2830	2835
40°	2820	2798	2803
45°	2807	2749	2753
50°	2731	2693	2693
55°	2651	2592	2608
60°	2558	2469	2503
65°	2383	2260	2281
70°	2135	2015	2046
75°	1759	1653	1647
80°	1232	1161	1161
85°	667	596	596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2807 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.4
10°-20°	586.6	9.8
20°-30°	891.6	14.9
30°-40°	1078.4	18.0
40°-50°	1116.2	18.7
50°-60°	991.8	16.6
60°-70°	712.6	11.9
70°-80°	340.7	5.7
80°-90°	57.4	1.0
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°	1682.6	28.1
0°-40°	2760.9	46.2
0°-60°	4868.9	81.4
0°-90°	5979.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5979.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2155	2155	2155	2155	2155	
5°	2163	2149	2150	2152	2157	205
15°	2087	2074	2079	2075	2086	590
25°	1940	1929	1927	1935	1938	896
35°	1743	1732	1723	1720	1726	1087
45°	1475	1454	1444	1440	1447	1129
55°	1130	1119	1105	1098	1112	1012
65°	748	740	710	692	717	740
75°	338	333	318	291	317	363
85°	43	41	39	36	39	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2155.4	2155.4	2155.4	<i>2155.4</i>	2155.4
2.5°	<i>2164.5</i>	<i>2148.6</i>	<i>2145.2</i>	<i>2165.6</i>	<i>2165.6</i>
5°	2163.4	2148.6	2149.7	<i>2152.0</i>	2156.6
7.5°	2148.6	2140.7	2132.7	<i>2140.7</i>	2146.3
10°	2135.0	2116.8	2114.5	<i>2117.9</i>	2130.4
12.5°	2112.3	2091.8	2094.1	<i>2099.8</i>	2111.1
15°	2087.3	2073.7	2079.3	<i>2074.8</i>	2086.2
17.5°	2057.8	2057.8	2043.0	<i>2039.6</i>	2056.6
20°	2037.3	2008.9	2028.2	<i>2011.2</i>	2024.8
22.5°	1986.2	1970.3	1965.8	<i>1979.4</i>	1979.4
25°	1939.7	1929.4	1927.2	<i>1935.1</i>	1938.5
27.5°	1895.4	1889.7	1892.0	<i>1890.8</i>	1890.8
30°	1847.7	1832.9	1831.8	<i>1831.8</i>	1832.9
32.5°	1796.6	1786.3	1785.2	<i>1778.4</i>	1781.8
35°	1743.2	1731.8	1722.8	<i>1720.5</i>	1726.2
37.5°	1671.6	1658.0	1656.9	<i>1659.2</i>	1659.2
40°	1605.8	1591.0	1593.3	<i>1585.3</i>	1595.6
42.5°	1534.2	1521.7	1513.8	<i>1511.5</i>	1524.0
45°	1475.2	1453.6	1444.5	<i>1440.0</i>	1446.8
47.5°	1382.1	1376.4	1367.3	<i>1359.3</i>	1375.2
50°	1304.8	1308.2	1286.7	<i>1278.7</i>	1286.7
52.5°	1223.1	1208.3	1193.5	<i>1179.9</i>	1202.6
55°	1130.0	1118.6	1105.0	<i>1098.2</i>	1111.8
57.5°	1044.8	1032.3	1011.8	<i>995.9</i>	1019.8
60°	950.5	939.2	917.6	<i>900.6</i>	930.1
62.5°	854.0	841.5	821.1	<i>793.8</i>	824.5
65°	748.4	740.4	709.8	<i>691.6</i>	716.6
67.5°	641.6	637.1	618.9	<i>588.3</i>	624.6
70°	542.8	533.7	512.2	<i>484.9</i>	520.1
72.5°	445.2	429.3	413.4	<i>387.2</i>	416.8
75°	338.4	332.7	318.0	<i>290.7</i>	316.8
77.5°	245.3	239.6	229.4	<i>209.0</i>	229.4
80°	159.0	157.9	149.9	<i>135.1</i>	149.9
82.5°	90.9	90.9	85.2	<i>79.5</i>	85.2
85°	43.2	40.9	38.6	<i>36.3</i>	38.6
87.5°	11.4	11.4	11.4	<i>11.4</i>	12.5
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)