

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: P688055

Luminaire Tested: FLR-MC-22-L3C3 (LOW)-50-CP375

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688055
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-22-L3C3 (LOW)-50-CP375
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 5000K Luminaire at Low Lumen setting for Medical/Cleanroom
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

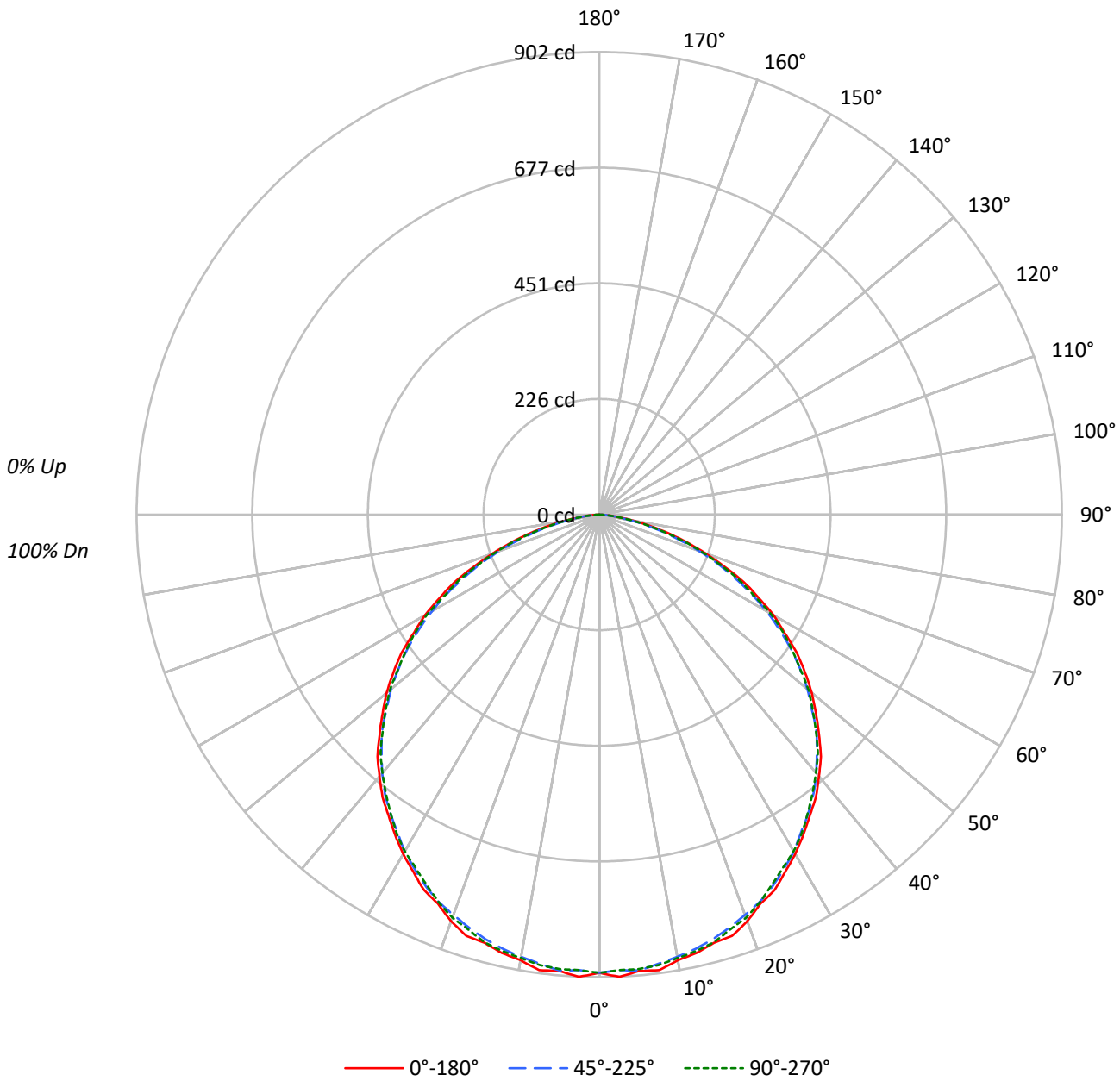
Lumens per Lamp: N/A
Luminaire Lumens: 2462.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
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°	2404	2404	2404
5°	2413	2411	2403
10°	2412	2393	2400
15°	2409	2388	2406
20°	2417	2379	2396
25°	2400	2375	2365
30°	2375	2358	2356
35°	2353	2335	2330
40°	2341	2311	2310
45°	2305	2280	2273
50°	2265	2218	2232
55°	2207	2141	2152
60°	2113	2026	2074
65°	1980	1852	1911
70°	1733	1622	1683
75°	1436	1292	1364
80°	1017	910	948
85°	513	454	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.4
10°-20°	242.7	9.9
20°-30°	368.5	15.0
30°-40°	444.8	18.1
40°-50°	461.1	18.7
50°-60°	408.5	16.6
60°-70°	291.6	11.8
70°-80°	138.1	5.6
80°-90°	22.6	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°	695.8	28.3
0°-40°	1140.6	46.3
0°-60°	2010.2	81.6
0°-90°	2462.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2462.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	893	889	892	886	890	85
15°	865	860	857	862	864	245
25°	808	795	800	800	796	371
35°	716	709	711	708	709	449
45°	606	597	599	597	597	468
55°	470	457	456	454	459	418
65°	311	291	291	293	300	304
75°	138	127	124	127	131	147
85°	17	15	15	14	16	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.4	893.4	893.4	893.4	893.4
2.5°	902.3	886.6	889.0	891.0	889.0
5°	893.4	889.0	892.5	886.1	889.5
7.5°	895.9	885.1	883.7	881.7	886.1
10°	882.7	876.3	875.8	879.3	878.3
12.5°	875.8	870.4	867.5	868.0	871.9
15°	864.6	859.7	857.2	862.1	863.6
17.5°	861.6	844.5	844.5	845.5	848.4
20°	844.0	832.7	830.8	832.7	836.7
22.5°	821.5	817.6	817.6	819.0	818.1
25°	808.3	795.0	799.9	800.4	796.5
27.5°	785.3	780.4	779.4	777.4	776.0
30°	764.2	756.4	758.8	758.8	758.3
32.5°	740.7	735.3	732.9	733.4	735.8
35°	716.2	708.9	710.8	707.9	709.4
37.5°	694.2	684.4	686.4	684.9	683.4
40°	666.3	658.5	658.0	655.5	657.5
42.5°	639.9	628.6	628.1	628.6	631.0
45°	605.6	596.8	599.2	597.3	597.3
47.5°	572.8	566.9	562.5	563.0	565.0
50°	541.0	529.7	529.7	525.8	533.1
52.5°	505.7	494.5	493.0	494.5	493.5
55°	470.5	457.2	456.3	454.3	458.7
57.5°	427.9	415.1	416.1	417.1	423.5
60°	392.6	375.5	376.5	377.5	385.3
62.5°	349.1	334.9	334.4	335.8	337.8
65°	310.9	290.8	290.8	292.8	300.1
67.5°	262.4	250.2	249.7	252.1	255.1
70°	220.3	206.1	206.1	209.0	213.9
72.5°	178.2	166.5	164.5	168.9	172.3
75°	138.1	126.8	124.3	127.3	131.2
77.5°	98.9	91.5	89.6	92.5	93.5
80°	65.6	59.2	58.7	60.2	61.2
82.5°	37.7	33.8	32.3	33.8	34.3
85°	16.6	15.2	14.7	14.2	15.7
87.5°	3.9	3.9	3.9	3.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)