

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: P688148

Luminaire Tested: FLR-MC-22-L3C3 (MED)-50-CP250

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR-MC-22-L3C3 (MED)-50-CP250
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 5000K Luminaire at Midium Lumen setting for Medical/Cleanroom
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

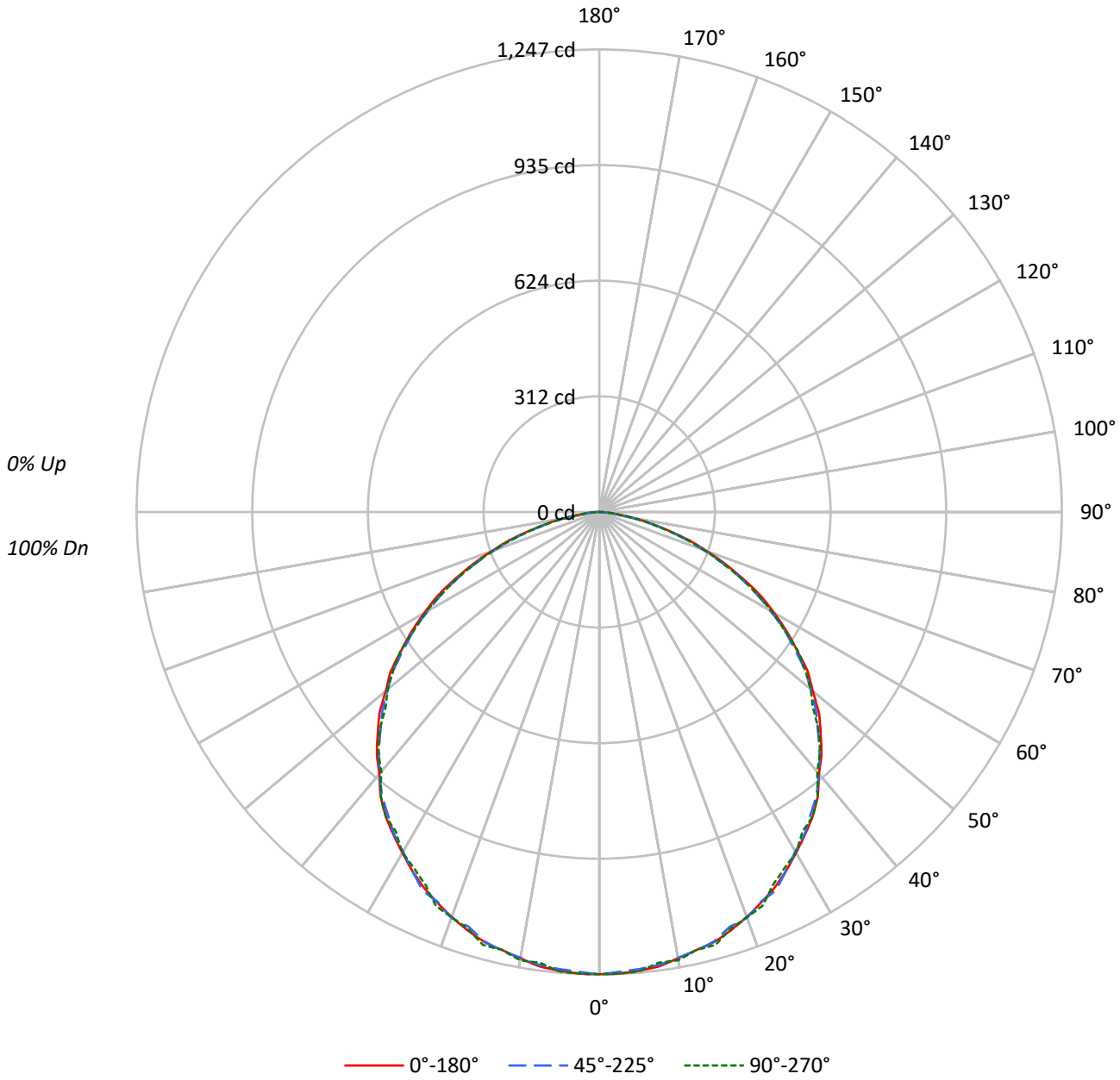
Lumens per Lamp: N/A
Luminaire Lumens: 3455.2 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
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	102	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	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
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°	3355	3355	3355
5°	3355	3342	3358
10°	3339	3336	3354
15°	3344	3338	3368
20°	3329	3336	3331
25°	3320	3343	3292
30°	3297	3285	3295
35°	3294	3266	3294
40°	3236	3234	3211
45°	3214	3174	3189
50°	3142	3117	3114
55°	3051	3008	3070
60°	2927	2863	2894
65°	2729	2670	2674
70°	2418	2350	2376
75°	1990	1914	1942
80°	1396	1365	1385
85°	716	676	676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.4
10°-20°	338.1	9.8
20°-30°	514.1	14.9
30°-40°	621.7	18.0
40°-50°	644.3	18.6
50°-60°	575.1	16.6
60°-70°	413.0	12.0
70°-80°	198.1	5.7
80°-90°	32.9	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°	970.1	28.1
0°-40°	1591.8	46.1
0°-60°	2811.2	81.4
0°-90°	3455.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1242	1246	1237	1238	1243	118
15°	1200	1202	1198	1198	1209	338
25°	1118	1115	1126	1112	1109	515
35°	1003	995	994	990	1003	626
45°	844	839	834	833	838	651
55°	650	643	641	640	654	583
65°	429	416	419	413	420	424
75°	191	179	184	184	187	207
85°	23	22	22	22	22	34
90°	0	0	0	0	0	

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 CATALOG NUMBER: FLR-MC-22-L3C3 (MED)-50-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.6	1246.6	1246.6	1246.6	1246.6
2.5°	1245.9	1247.2	1241.3	1239.9	1245.9
5°	1241.9	1245.9	1237.3	1238.0	1243.3
7.5°	1236.0	1233.3	1232.0	1236.6	1226.0
10°	1222.1	1228.0	1220.7	1217.4	1227.4
12.5°	1210.1	1210.8	1211.5	1212.8	1209.5
15°	1200.2	1201.5	1198.2	1198.2	1208.8
17.5°	1182.3	1185.0	1172.4	1180.3	1177.7
20°	1162.5	1159.8	1165.1	1163.1	1163.1
22.5°	1140.6	1140.6	1137.9	1139.3	1149.9
25°	1118.1	1115.4	1126.0	1112.1	1108.8
27.5°	1090.9	1088.3	1090.9	1083.6	1082.3
30°	1061.1	1054.5	1057.1	1057.8	1060.4
32.5°	1032.0	1025.3	1030.0	1025.3	1020.7
35°	1002.8	994.9	994.2	990.2	1002.8
37.5°	967.7	959.1	962.4	949.8	967.1
40°	921.3	916.1	920.7	916.7	914.1
42.5°	886.9	880.9	879.0	876.3	880.3
45°	844.5	838.6	833.9	833.3	837.9
47.5°	803.4	788.2	792.2	786.2	780.9
50°	750.5	746.5	744.5	738.5	743.8
52.5°	709.4	694.8	698.1	692.8	698.8
55°	650.4	643.2	641.2	639.8	654.4
57.5°	599.4	590.2	591.5	588.2	590.2
60°	543.8	535.2	531.9	531.2	537.8
62.5°	491.5	473.6	476.2	475.6	478.9
65°	428.6	416.0	419.3	413.3	419.9
67.5°	368.3	355.7	357.0	355.7	359.0
70°	307.3	293.4	298.7	296.1	302.0
72.5°	254.3	237.8	242.4	237.8	243.1
75°	191.4	178.8	184.1	184.1	186.8
77.5°	141.1	129.8	133.8	132.5	135.1
80°	90.1	85.4	88.1	86.1	89.4
82.5°	51.7	48.4	48.4	49.7	50.3
85°	23.2	21.9	21.9	21.9	21.9
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)