

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: P688314

Luminaire Tested: FLR-MC-14-40-35-CP125

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688314  
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-14-40-35-CP125  
Description: Fail-Safe - FLR Fully Luminous Recessed 1X4 3500K Luminaire for Medical/Cleanroom  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

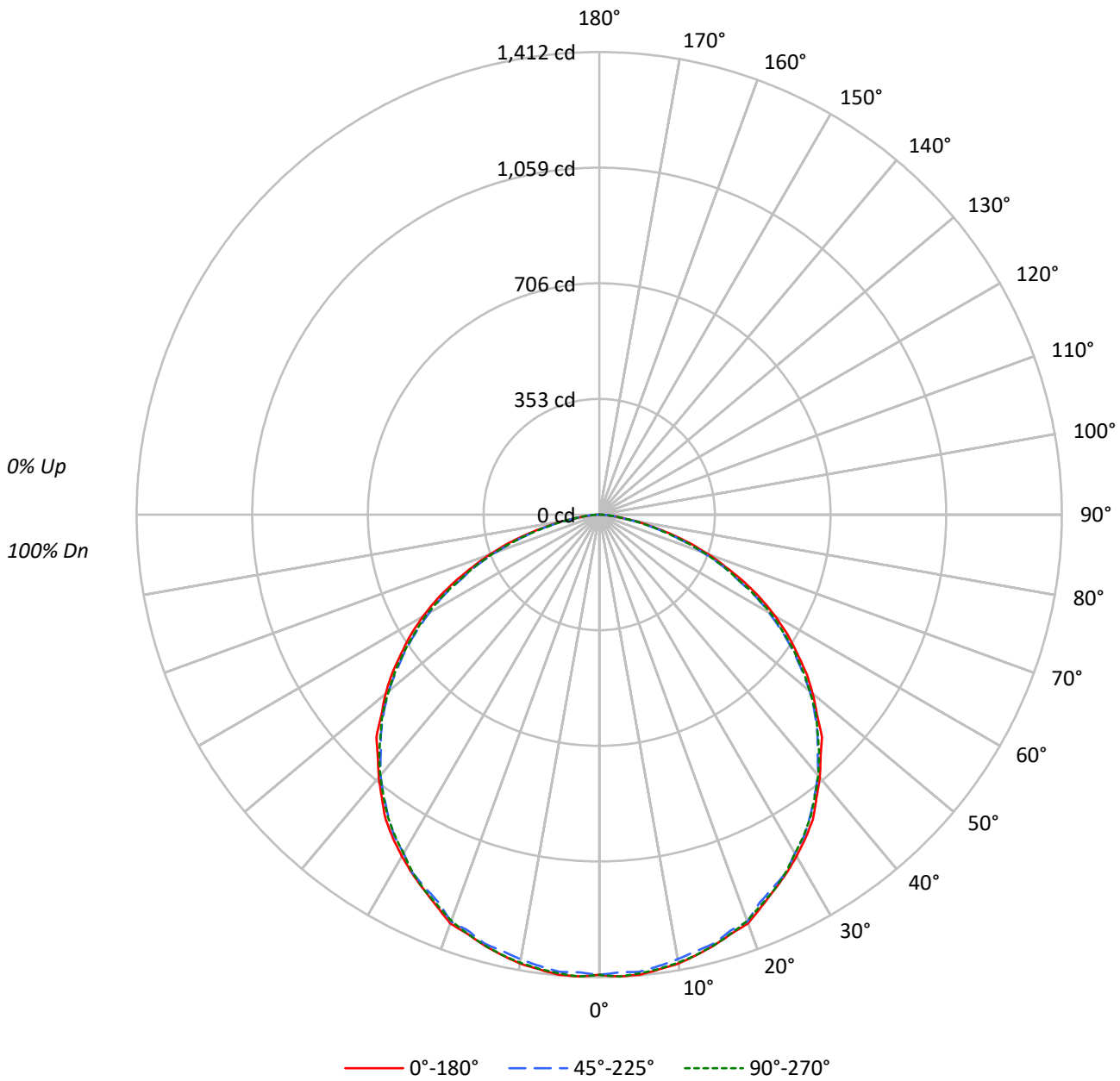
Lumens per Lamp: N/A  
Luminaire Lumens: 3898.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.4  
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°	3781	3781	3781
5°	3810	3786	3797
10°	3803	3766	3795
15°	3791	3776	3789
20°	3803	3786	3780
25°	3754	3730	3752
30°	3743	3710	3713
35°	3733	3689	3697
40°	3677	3648	3654
45°	3659	3584	3589
50°	3561	3512	3512
55°	3456	3379	3400
60°	3335	3219	3263
65°	3107	2946	2974
70°	2784	2627	2668
75°	2294	2155	2147
80°	1605	1514	1514
85°	868	778	778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3659 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	3.4
10°-20°	382.4	9.8
20°-30°	581.2	14.9
30°-40°	703.0	18.0
40°-50°	727.7	18.7
50°-60°	646.5	16.6
60°-70°	464.5	11.9
70°-80°	222.1	5.7
80°-90°	37.4	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°	1096.8	28.1
0°-40°	1799.8	46.2
0°-60°	3174.0	81.4
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1405	1405	1405	1405	1405	
5°	1410	1401	1401	1403	1406	134
15°	1361	1352	1356	1352	1360	384
25°	1264	1258	1256	1262	1264	584
35°	1136	1129	1123	1122	1125	708
45°	962	948	942	939	943	736
55°	737	729	720	716	725	660
65°	488	483	463	451	467	482
75°	221	217	207	190	206	237
85°	28	27	25	24	25	40
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1411.0	1400.6	1398.4	1411.7	1411.7
5°	1410.3	1400.6	1401.4	1402.9	1405.8
7.5°	1400.6	1395.5	1390.3	1395.5	1399.2
10°	1391.8	1379.9	1378.4	1380.7	1388.8
12.5°	1377.0	1363.6	1365.1	1368.8	1376.2
15°	1360.7	1351.8	1355.5	1352.5	1359.9
17.5°	1341.4	1341.4	1331.8	1329.6	1340.7
20°	1328.1	1309.6	1322.2	1311.1	1320.0
22.5°	1294.8	1284.4	1281.5	1290.3	1290.3
25°	1264.4	1257.8	1256.3	1261.5	1263.7
27.5°	1235.6	1231.9	1233.3	1232.6	1232.6
30°	1204.5	1194.8	1194.1	1194.1	1194.8
32.5°	1171.2	1164.5	1163.7	1159.3	1161.5
35°	1136.4	1129.0	1123.0	1121.6	1125.3
37.5°	1089.7	1080.8	1080.1	1081.6	1081.6
40°	1046.8	1037.2	1038.6	1033.5	1040.1
42.5°	1000.1	992.0	986.8	985.3	993.5
45°	961.6	947.6	941.7	938.7	943.1
47.5°	900.9	897.2	891.3	886.1	896.5
50°	850.6	852.8	838.8	833.6	838.8
52.5°	797.3	787.7	778.1	769.2	784.0
55°	736.6	729.2	720.3	715.9	724.8
57.5°	681.1	672.9	659.6	649.2	664.8
60°	619.6	612.2	598.2	587.1	606.3
62.5°	556.7	548.6	535.2	517.5	537.5
65°	487.9	482.7	462.7	450.8	467.1
67.5°	418.3	415.3	403.5	383.5	407.2
70°	353.9	347.9	333.9	316.1	339.1
72.5°	290.2	279.8	269.5	252.4	271.7
75°	220.6	216.9	207.3	189.5	206.5
77.5°	159.9	156.2	149.5	136.2	149.5
80°	103.6	102.9	97.7	88.1	97.7
82.5°	59.2	59.2	55.5	51.8	55.5
85°	28.1	26.7	25.2	23.7	25.2
87.5°	7.4	7.4	7.4	7.4	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)