

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: P688417

Luminaire Tested: FLR-MC-22-L3C3 (MED)-40-CA125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-938-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR-MC-22-L3C3 (MED)-40-CA125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 4000K Luminaire at Midium Lumen setting for Medical/Cleanroom
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

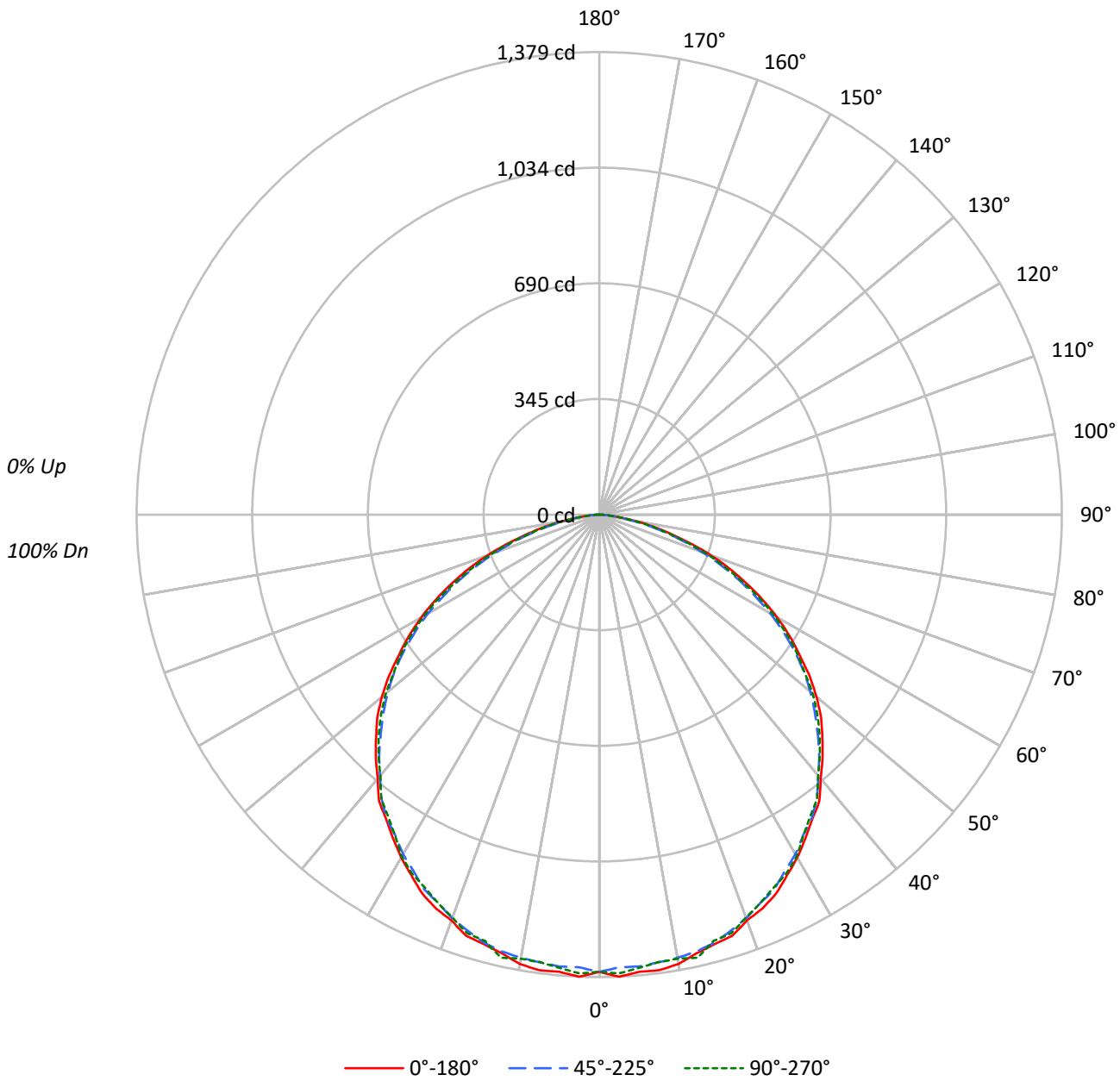
Lumens per Lamp: N/A
Luminaire Lumens: 3830.2 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3669	3669	3669
5°	3696	3653	3664
10°	3718	3667	3674
15°	3695	3683	3666
20°	3688	3668	3662
25°	3703	3662	3646
30°	3668	3634	3657
35°	3638	3629	3604
40°	3608	3569	3564
45°	3579	3503	3535
50°	3540	3439	3477
55°	3415	3338	3377
60°	3293	3167	3238
65°	3077	2907	2977
70°	2781	2553	2666
75°	2273	2080	2151
80°	1630	1460	1523
85°	892	763	784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.4
10°-20°	372.5	9.7
20°-30°	567.0	14.8
30°-40°	687.5	17.9
40°-50°	714.8	18.7
50°-60°	638.8	16.7
60°-70°	460.5	12.0
70°-80°	221.9	5.8
80°-90°	38.0	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°	1068.8	27.9
0°-40°	1756.2	45.9
0°-60°	3109.8	81.2
0°-90°	3830.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1368	1356	1352	1359	1356	131
15°	1326	1316	1322	1314	1316	375
25°	1247	1228	1233	1227	1228	573
35°	1108	1095	1105	1098	1097	694
45°	940	928	920	925	929	726
55°	728	718	712	710	720	653
65°	483	472	456	460	468	478
75°	219	212	200	202	207	235
85°	29	27	25	25	25	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1379.1	1368.1	1350.9	1359.2	1368.8
5°	1368.1	1356.4	1352.3	1359.2	1356.4
7.5°	1370.2	1352.3	1346.8	1354.3	1346.1
10°	1360.5	1344.7	1342.0	1345.4	1344.7
12.5°	1339.9	1336.5	1334.4	1328.9	1353.0
15°	1326.2	1316.5	1322.0	1313.8	1315.9
17.5°	1317.2	1294.5	1301.4	1300.0	1309.0
20°	1287.7	1282.2	1280.8	1276.7	1278.7
22.5°	1271.2	1258.1	1254.0	1252.6	1254.0
25°	1247.1	1227.9	1233.4	1227.2	1227.9
27.5°	1212.7	1191.4	1198.3	1197.6	1207.2
30°	1180.4	1164.6	1169.4	1165.3	1177.0
32.5°	1144.0	1130.2	1132.3	1131.6	1133.0
35°	1107.5	1095.2	1104.8	1097.9	1097.2
37.5°	1078.0	1053.2	1066.3	1058.7	1067.0
40°	1027.1	1017.5	1016.1	1011.3	1014.7
42.5°	985.2	972.8	970.7	973.5	973.5
45°	940.5	928.1	920.5	924.7	928.8
47.5°	897.2	881.4	871.7	873.8	882.0
50°	845.6	825.0	821.5	824.3	830.5
52.5°	789.9	773.4	768.6	767.9	770.7
55°	728.0	718.4	711.5	709.5	719.8
57.5°	672.4	657.9	649.7	653.1	662.7
60°	611.9	596.1	588.5	591.2	601.6
62.5°	548.6	532.8	521.1	526.6	538.3
65°	483.3	471.6	456.5	459.9	467.5
67.5°	420.1	407.0	391.2	393.2	401.5
70°	353.4	339.6	324.5	327.9	338.9
72.5°	283.2	274.3	260.6	261.9	271.6
75°	218.6	212.4	200.1	202.1	206.9
77.5°	162.2	154.0	144.4	146.4	152.6
80°	105.2	102.4	94.2	95.6	98.3
82.5°	59.8	59.8	56.4	55.0	58.4
85°	28.9	26.8	24.7	25.4	25.4
87.5°	6.9	7.6	6.9	6.2	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)