

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: P688296

Luminaire Tested: FLR-HA-22-L3C3 (MED)-35-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688296
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-HA-22-L3C3 (MED)-35-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 3500K Luminaire at Midium Lumen setting for High Abuse
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

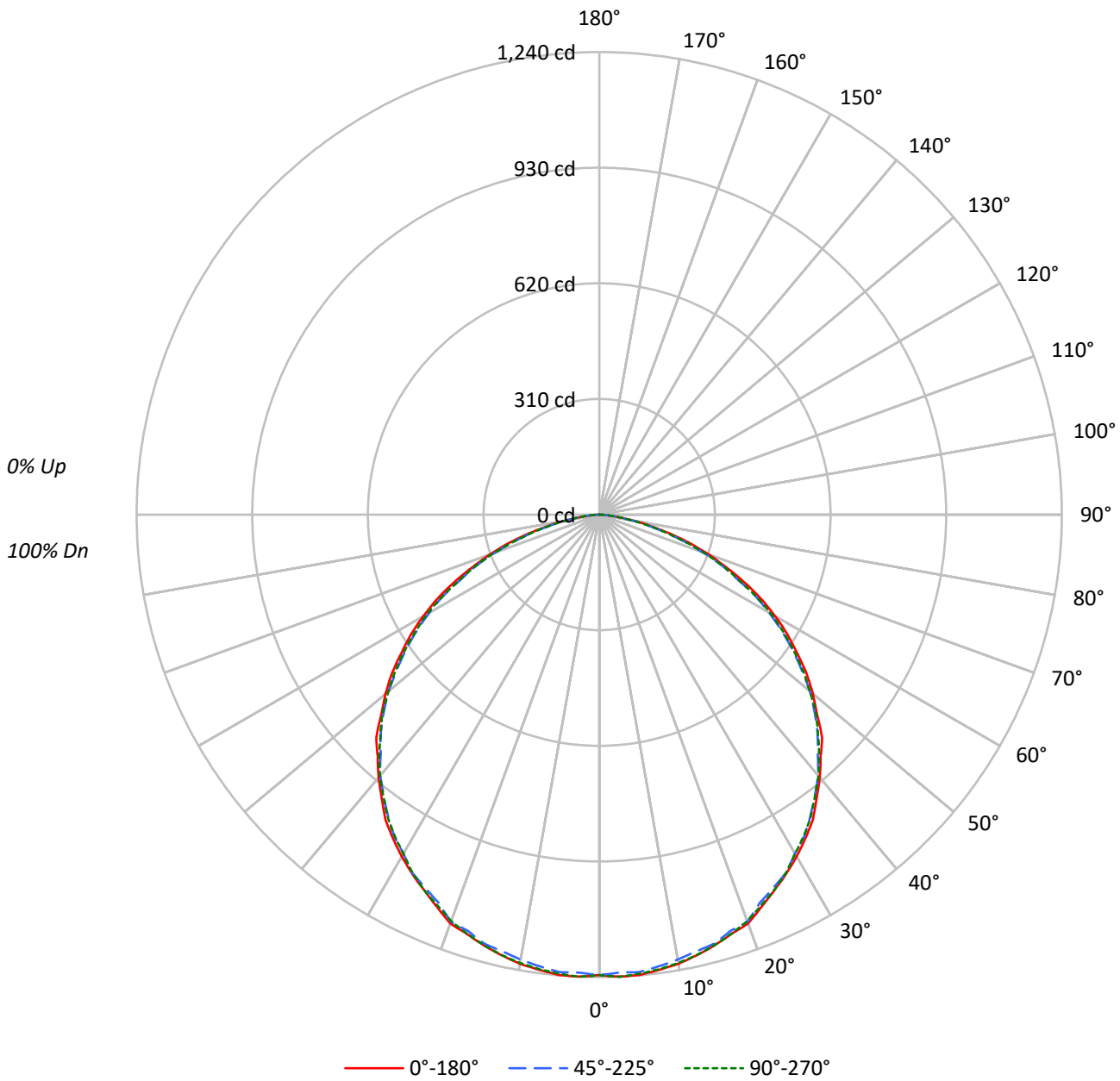
Lumens per Lamp: N/A
Luminaire Lumens: 3425.3 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.2
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85	85	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71	71	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60	60	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44	44	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39	39	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	28	28	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3323	3323	3323
5°	3347	3326	3337
10°	3342	3310	3335
15°	3331	3318	3329
20°	3342	3327	3322
25°	3299	3278	3297
30°	3289	3260	3262
35°	3280	3242	3248
40°	3231	3206	3211
45°	3216	3149	3154
50°	3129	3085	3085
55°	3037	2970	2988
60°	2930	2829	2868
65°	2730	2589	2614
70°	2446	2308	2344
75°	2016	1893	1887
80°	1412	1331	1331
85°	763	682	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.4
10°-20°	336.0	9.8
20°-30°	510.7	14.9
30°-40°	617.7	18.0
40°-50°	639.4	18.7
50°-60°	568.1	16.6
60°-70°	408.2	11.9
70°-80°	195.2	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°	963.8	28.1
0°-40°	1581.5	46.2
0°-60°	2789.1	81.4
0°-90°	3425.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1239	1231	1231	1233	1235	118
15°	1196	1188	1191	1188	1195	338
25°	1111	1105	1104	1108	1110	513
35°	999	992	987	986	989	622
45°	845	833	828	825	829	647
55°	647	641	633	629	637	580
65°	429	424	407	396	410	424
75°	194	191	182	166	182	208
85°	25	23	22	21	22	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.7	1234.7	1234.7	1234.7	1234.7
2.5°	1239.9	1230.8	1228.8	1240.5	1240.5
5°	1239.2	1230.8	1231.4	1232.7	1235.3
7.5°	1230.8	1226.2	1221.7	1226.2	1229.5
10°	1223.0	1212.6	1211.3	1213.2	1220.4
12.5°	1210.0	1198.3	1199.6	1202.8	1209.3
15°	1195.7	1187.9	1191.1	1188.5	1195.0
17.5°	1178.7	1178.7	1170.3	1168.3	1178.1
20°	1167.0	1150.8	1161.8	1152.1	1159.9
22.5°	1137.8	1128.7	1126.1	1133.9	1133.9
25°	1111.1	1105.2	1103.9	1108.5	1110.4
27.5°	1085.7	1082.5	1083.8	1083.1	1083.1
30°	1058.4	1049.9	1049.3	1049.3	1049.9
32.5°	1029.1	1023.3	1022.6	1018.7	1020.7
35°	998.6	992.0	986.8	985.5	988.8
37.5°	957.6	949.8	949.1	950.4	950.4
40°	919.8	911.4	912.7	908.1	914.0
42.5°	878.9	871.7	867.1	865.8	873.0
45°	845.0	832.7	827.5	824.9	828.8
47.5°	791.7	788.4	783.2	778.7	787.8
50°	747.4	749.4	737.0	732.5	737.0
52.5°	700.6	692.2	683.7	675.9	688.9
55°	647.3	640.8	633.0	629.1	636.9
57.5°	598.5	591.3	579.6	570.5	584.2
60°	544.5	538.0	525.6	515.9	532.8
62.5°	489.2	482.0	470.3	454.7	472.3
65°	428.7	424.1	406.6	396.2	410.5
67.5°	367.5	364.9	354.5	337.0	357.8
70°	310.9	305.7	293.4	277.8	297.9
72.5°	255.0	245.9	236.8	221.8	238.7
75°	193.9	190.6	182.1	166.5	181.5
77.5°	140.5	137.3	131.4	119.7	131.4
80°	91.1	90.4	85.9	77.4	85.9
82.5°	52.0	52.0	48.8	45.5	48.8
85°	24.7	23.4	22.1	20.8	22.1
87.5°	6.5	6.5	6.5	6.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)