

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: P973666

Luminaire Tested: FLR2-22-25-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25-L850-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

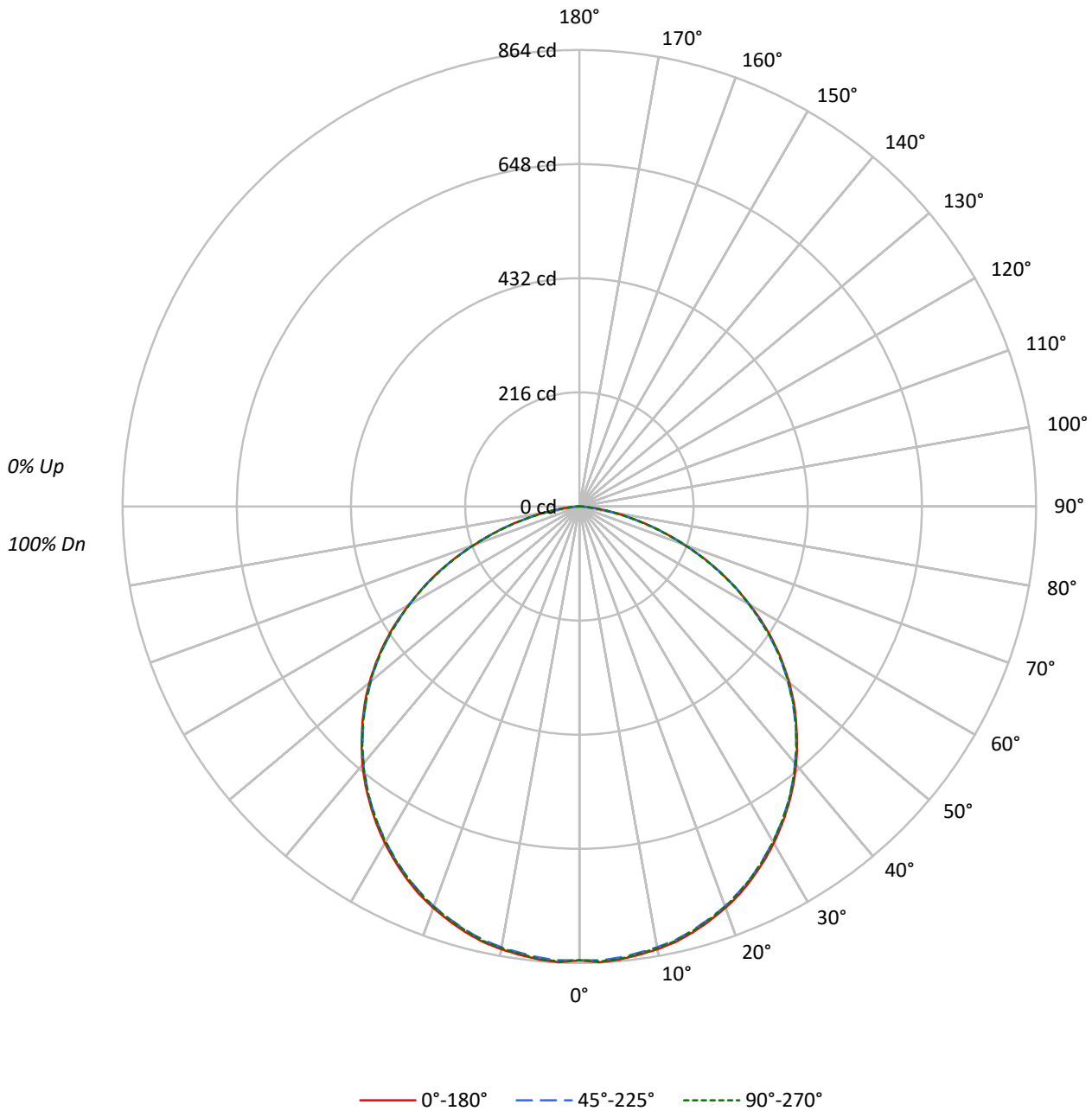
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2401.8 lumens
Efficiency: N/A
Efficacy: 127.1 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): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85			85																
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71			71																
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60			60																
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44			44																
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39			39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34			34																
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30			30																
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27			27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25			25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2311	2311	2311
5°	2326	2316	2323
10°	2325	2315	2319
15°	2323	2313	2316
20°	2315	2306	2309
25°	2303	2293	2295
30°	2286	2276	2278
35°	2265	2257	2258
40°	2242	2231	2232
45°	2208	2199	2203
50°	2170	2154	2159
55°	2108	2091	2098
60°	2004	1996	1996
65°	1871	1868	1861
70°	1657	1666	1661
75°	1395	1385	1373
80°	1003	987	978
85°	525	525	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2208 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.4
10°-20°	233.9	9.7
20°-30°	355.4	14.8
30°-40°	429.6	17.9
40°-50°	445.9	18.6
50°-60°	398.6	16.6
60°-70°	289.8	12.1
70°-80°	142.5	5.9
80°-90°	24.7	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°	670.6	27.9
0°-40°	1100.2	45.8
0°-60°	1944.7	81.0
0°-90°	2401.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	861	851	857	854	860	82
15°	834	824	830	828	831	235
25°	776	767	772	771	773	357
35°	690	685	687	688	688	431
45°	580	578	578	579	579	448
55°	449	447	446	447	447	400
65°	294	295	293	293	292	290
75°	134	135	133	134	132	142
85°	17	18	17	17	16	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.8	858.8	858.8	858.8	858.8
2.5°	863.6	853.5	859.9	856.2	862.0
5°	861.0	850.9	857.3	854.1	859.9
7.5°	856.2	846.1	852.5	849.3	854.1
10°	850.9	840.3	847.2	844.0	848.8
12.5°	844.0	833.9	840.3	837.6	841.9
15°	833.9	824.4	830.2	828.1	831.3
17.5°	821.7	812.2	818.0	816.4	819.1
20°	808.5	799.4	805.3	803.7	806.3
22.5°	793.6	784.0	789.4	788.3	790.4
25°	775.6	767.1	772.4	770.8	772.9
27.5°	756.5	748.5	752.7	752.7	753.8
30°	735.8	728.3	732.6	732.6	733.1
32.5°	713.5	707.7	710.3	710.8	710.8
35°	689.6	684.8	687.0	687.5	687.5
37.5°	664.7	659.9	661.5	662.6	662.6
40°	638.2	633.9	635.0	636.0	635.5
42.5°	609.5	606.3	606.9	607.9	607.9
45°	580.3	577.7	577.7	578.8	578.8
47.5°	550.6	548.0	546.9	548.0	548.0
50°	518.3	515.6	514.6	515.6	515.6
52.5°	484.3	481.7	481.7	481.7	482.2
55°	449.3	446.7	445.6	446.7	447.2
57.5°	412.2	411.1	409.5	410.1	408.5
60°	372.4	372.4	370.8	371.9	370.8
62.5°	333.7	334.7	333.1	333.1	332.1
65°	293.9	294.9	293.4	293.4	292.3
67.5°	253.0	254.6	252.5	252.5	251.4
70°	210.6	213.8	211.7	212.2	211.1
72.5°	172.4	174.0	171.9	171.9	170.8
75°	134.2	135.3	133.2	133.7	132.1
77.5°	96.5	98.1	96.0	96.5	96.0
80°	64.7	65.2	63.7	64.2	63.1
82.5°	37.7	38.2	37.7	37.1	36.6
85°	17.0	17.5	17.0	17.0	16.4
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)