

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: P973682

Luminaire Tested: FLR2-22-25-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973682
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

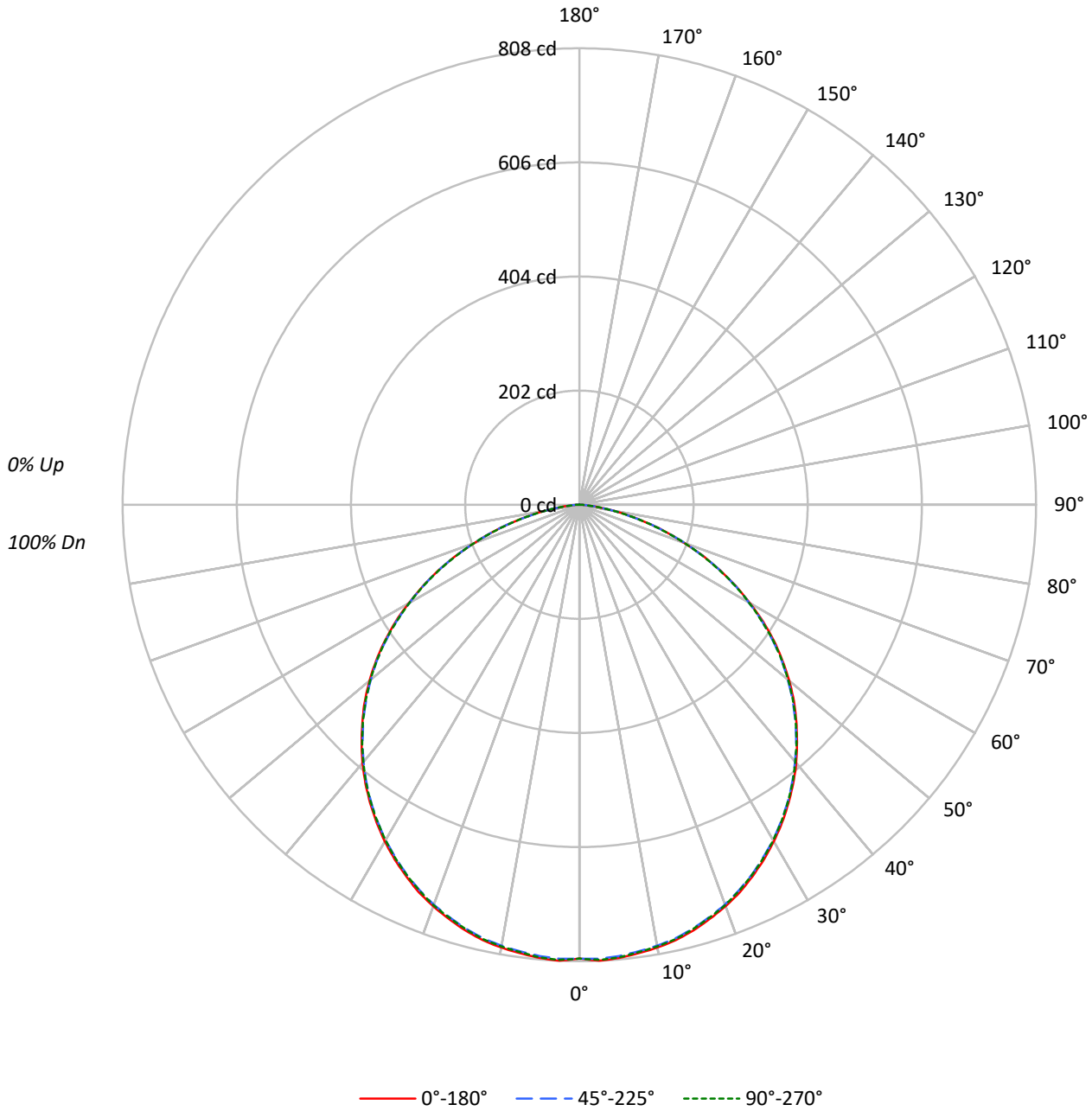
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2246.8 lumens
Efficiency: N/A
Efficacy: 118.9 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				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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	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	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	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°	2162	2162	2162
5°	2176	2166	2173
10°	2175	2165	2170
15°	2173	2164	2166
20°	2166	2157	2160
25°	2154	2145	2147
30°	2139	2129	2131
35°	2119	2111	2113
40°	2097	2087	2088
45°	2066	2057	2060
50°	2030	2015	2020
55°	1972	1956	1962
60°	1875	1867	1867
65°	1750	1747	1741
70°	1550	1558	1554
75°	1306	1295	1285
80°	938	924	916
85°	491	491	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2066 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.4
10°-20°	218.8	9.7
20°-30°	332.5	14.8
30°-40°	401.9	17.9
40°-50°	417.1	18.6
50°-60°	372.9	16.6
60°-70°	271.1	12.1
70°-80°	133.3	5.9
80°-90°	23.1	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°	627.3	27.9
0°-40°	1029.2	45.8
0°-60°	1819.2	81.0
0°-90°	2246.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	805	796	802	799	804	77
15°	780	771	777	775	778	220
25°	726	718	722	721	723	334
35°	645	641	643	643	643	404
45°	543	540	540	541	541	419
55°	420	418	417	418	418	375
65°	275	276	274	274	273	271
75°	126	126	125	125	124	133
85°	16	16	16	16	15	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.4	803.4	803.4	803.4	803.4
2.5°	807.9	798.5	804.4	801.0	806.4
5°	805.4	796.0	801.9	799.0	804.4
7.5°	801.0	791.5	797.5	794.5	799.0
10°	796.0	786.1	792.5	789.5	794.0
12.5°	789.5	780.1	786.1	783.6	787.6
15°	780.1	771.2	776.6	774.7	777.6
17.5°	768.7	759.8	765.2	763.7	766.2
20°	756.3	747.9	753.3	751.8	754.3
22.5°	742.4	733.5	738.4	737.4	739.4
25°	725.5	717.6	722.5	721.1	723.0
27.5°	707.7	700.2	704.2	704.2	705.2
30°	688.3	681.4	685.3	685.3	685.8
32.5°	667.5	662.0	664.5	665.0	665.0
35°	645.1	640.7	642.6	643.1	643.1
37.5°	621.8	617.3	618.8	619.8	619.8
40°	597.0	593.0	594.0	595.0	594.5
42.5°	570.2	567.2	567.7	568.7	568.7
45°	542.9	540.4	540.4	541.4	541.4
47.5°	515.1	512.6	511.6	512.6	512.6
50°	484.8	482.4	481.4	482.4	482.4
52.5°	453.1	450.6	450.6	450.6	451.1
55°	420.3	417.8	416.9	417.8	418.3
57.5°	385.6	384.6	383.1	383.6	382.1
60°	348.4	348.4	346.9	347.9	346.9
62.5°	312.1	313.1	311.6	311.6	310.7
65°	274.9	275.9	274.4	274.4	273.4
67.5°	236.7	238.2	236.2	236.2	235.2
70°	197.0	200.0	198.0	198.5	197.5
72.5°	161.3	162.8	160.8	160.8	159.8
75°	125.6	126.5	124.6	125.1	123.6
77.5°	90.3	91.8	89.8	90.3	89.8
80°	60.5	61.0	59.6	60.0	59.1
82.5°	35.2	35.7	35.2	34.7	34.2
85°	15.9	16.4	15.9	15.9	15.4
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)