

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: P973558

Luminaire Tested: FLR2-22-25-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973558
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-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

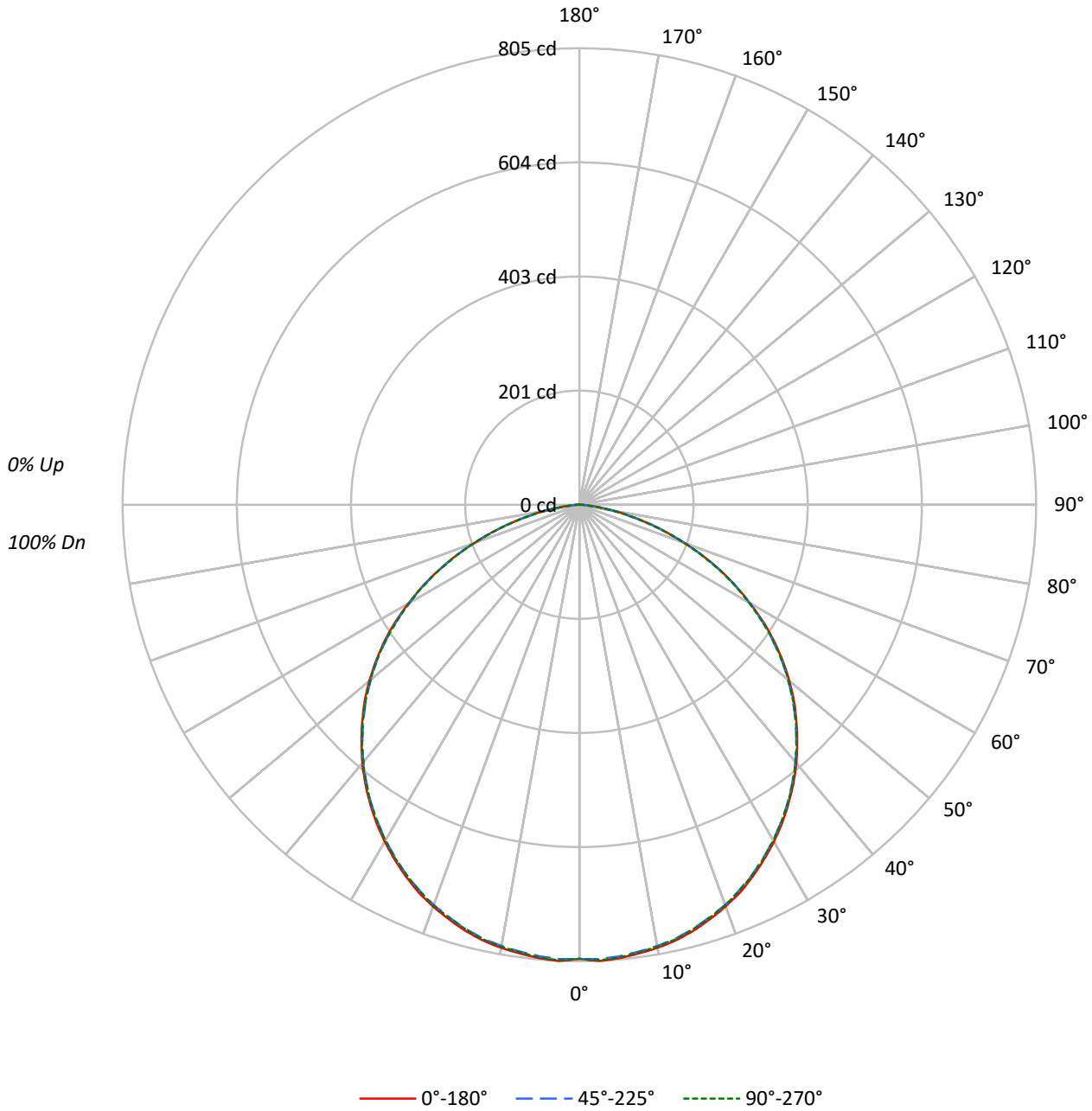
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.8 lumens
Efficiency: N/A
Efficacy: 118.5 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									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	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°	2155	2155	2155
5°	2169	2159	2166
10°	2168	2159	2163
15°	2167	2157	2160
20°	2159	2151	2153
25°	2148	2139	2140
30°	2132	2123	2124
35°	2113	2104	2106
40°	2090	2080	2082
45°	2060	2050	2054
50°	2023	2009	2013
55°	1966	1950	1956
60°	1869	1861	1861
65°	1745	1742	1736
70°	1545	1553	1549
75°	1302	1291	1281
80°	936	921	913
85°	488	488	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2060 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.4
10°-20°	218.1	9.7
20°-30°	331.4	14.8
30°-40°	400.6	17.9
40°-50°	415.8	18.6
50°-60°	371.8	16.6
60°-70°	270.3	12.1
70°-80°	132.9	5.9
80°-90°	23.0	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°	625.4	27.9
0°-40°	1026.0	45.8
0°-60°	1813.5	81.0
0°-90°	2239.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	803	794	799	796	802	76
15°	778	769	774	772	775	219
25°	723	715	720	719	721	333
35°	643	639	641	641	641	402
45°	541	539	539	540	540	417
55°	419	416	416	416	417	373
65°	274	275	274	274	273	270
75°	125	126	124	125	123	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°	800.9	800.9	800.9	800.9	800.9
2.5°	805.4	796.0	801.9	798.5	803.9
5°	802.9	793.5	799.4	796.5	801.9
7.5°	798.5	789.1	795.0	792.0	796.5
10°	793.5	783.6	790.0	787.1	791.5
12.5°	787.1	777.7	783.6	781.1	785.1
15°	777.7	768.8	774.2	772.2	775.2
17.5°	766.3	757.4	762.8	761.3	763.8
20°	753.9	745.5	751.0	749.5	751.9
22.5°	740.1	731.2	736.1	735.1	737.1
25°	723.3	715.3	720.3	718.8	720.8
27.5°	705.4	698.0	702.0	702.0	703.0
30°	686.2	679.2	683.2	683.2	683.7
32.5°	665.4	659.9	662.4	662.9	662.9
35°	643.1	638.7	640.6	641.1	641.1
37.5°	619.9	615.4	616.9	617.9	617.9
40°	595.1	591.2	592.2	593.1	592.7
42.5°	568.4	565.4	565.9	566.9	566.9
45°	541.2	538.7	538.7	539.7	539.7
47.5°	513.5	511.0	510.0	511.0	511.0
50°	483.3	480.9	479.9	480.9	480.9
52.5°	451.7	449.2	449.2	449.2	449.7
55°	419.0	416.5	415.6	416.5	417.0
57.5°	384.4	383.4	381.9	382.4	380.9
60°	347.3	347.3	345.8	346.8	345.8
62.5°	311.2	312.2	310.7	310.7	309.7
65°	274.1	275.1	273.6	273.6	272.6
67.5°	236.0	237.5	235.5	235.5	234.5
70°	196.4	199.4	197.4	197.9	196.9
72.5°	160.8	162.3	160.3	160.3	159.3
75°	125.2	126.1	124.2	124.7	123.2
77.5°	90.0	91.5	89.5	90.0	89.5
80°	60.4	60.8	59.4	59.9	58.9
82.5°	35.1	35.6	35.1	34.6	34.1
85°	15.8	16.3	15.8	15.8	15.3
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)