

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: P973634

Luminaire Tested: FLR2-22-25-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973634
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-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

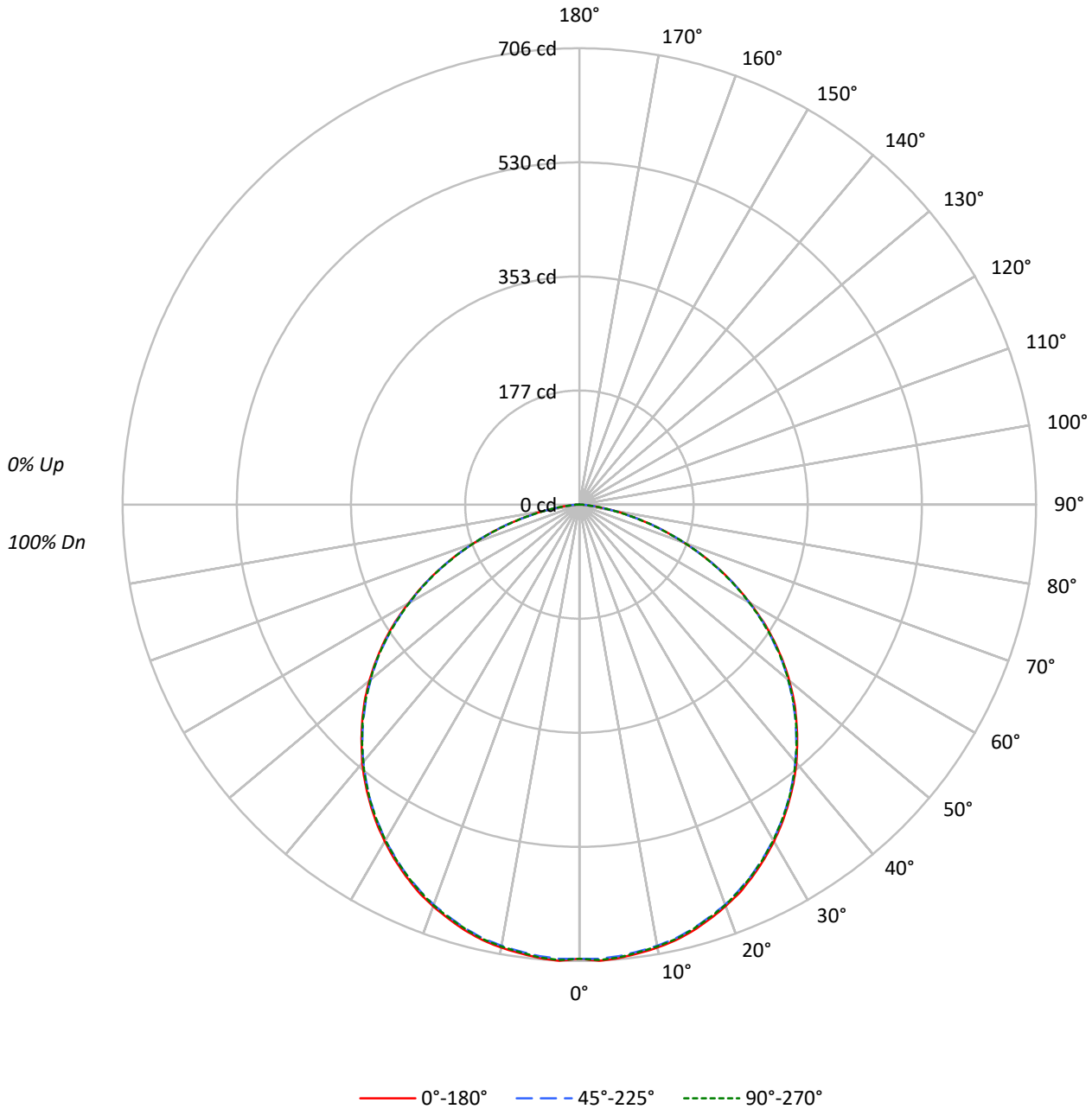
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.5 lumens
Efficiency: N/A
Efficacy: 103.9 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										
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°	1890	1890	1890
5°	1902	1894	1900
10°	1902	1893	1897
15°	1900	1892	1894
20°	1893	1886	1889
25°	1883	1876	1877
30°	1870	1862	1863
35°	1853	1846	1847
40°	1834	1825	1826
45°	1807	1798	1802
50°	1775	1762	1765
55°	1724	1710	1716
60°	1639	1632	1632
65°	1531	1528	1522
70°	1356	1362	1359
75°	1142	1132	1123
80°	820	807	800
85°	429	429	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.4
10°-20°	191.3	9.7
20°-30°	290.7	14.8
30°-40°	351.4	17.9
40°-50°	364.7	18.6
50°-60°	326.1	16.6
60°-70°	237.1	12.1
70°-80°	116.6	5.9
80°-90°	20.2	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°	548.5	27.9
0°-40°	899.8	45.8
0°-60°	1590.6	81.0
0°-90°	1964.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	696	701	698	703	67
15°	682	674	679	677	680	192
25°	634	627	632	630	632	292
35°	564	560	562	562	562	353
45°	475	472	472	473	473	366
55°	368	365	364	365	366	328
65°	240	241	240	240	239	237
75°	110	111	109	109	108	117
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.5	702.5	702.5	702.5	702.5
2.5°	706.4	698.1	703.3	700.3	705.1
5°	704.2	695.9	701.2	698.5	703.3
7.5°	700.3	692.0	697.2	694.6	698.5
10°	695.9	687.3	692.9	690.3	694.2
12.5°	690.3	682.1	687.3	685.1	688.6
15°	682.1	674.3	679.0	677.3	679.9
17.5°	672.1	664.3	669.0	667.7	669.9
20°	661.2	653.9	658.6	657.3	659.5
22.5°	649.1	641.3	645.6	644.7	646.5
25°	634.3	627.4	631.7	630.4	632.2
27.5°	618.7	612.2	615.7	615.7	616.5
30°	601.8	595.7	599.2	599.2	599.6
32.5°	583.6	578.8	581.0	581.4	581.4
35°	564.0	560.1	561.9	562.3	562.3
37.5°	543.7	539.7	541.0	541.9	541.9
40°	522.0	518.5	519.4	520.2	519.8
42.5°	498.5	495.9	496.4	497.2	497.2
45°	474.7	472.5	472.5	473.4	473.4
47.5°	450.4	448.2	447.3	448.2	448.2
50°	423.9	421.7	420.9	421.7	421.7
52.5°	396.1	394.0	394.0	394.0	394.4
55°	367.5	365.3	364.5	365.3	365.8
57.5°	337.1	336.3	335.0	335.4	334.1
60°	304.6	304.6	303.3	304.2	303.3
62.5°	272.9	273.8	272.5	272.5	271.6
65°	240.4	241.2	239.9	239.9	239.1
67.5°	207.0	208.3	206.5	206.5	205.7
70°	172.3	174.9	173.1	173.6	172.7
72.5°	141.0	142.3	140.6	140.6	139.7
75°	109.8	110.6	108.9	109.3	108.0
77.5°	79.0	80.3	78.5	79.0	78.5
80°	52.9	53.4	52.1	52.5	51.6
82.5°	30.8	31.2	30.8	30.4	29.9
85°	13.9	14.3	13.9	13.9	13.5
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)