

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: P973578

Luminaire Tested: FLR2-22-25-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973578
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

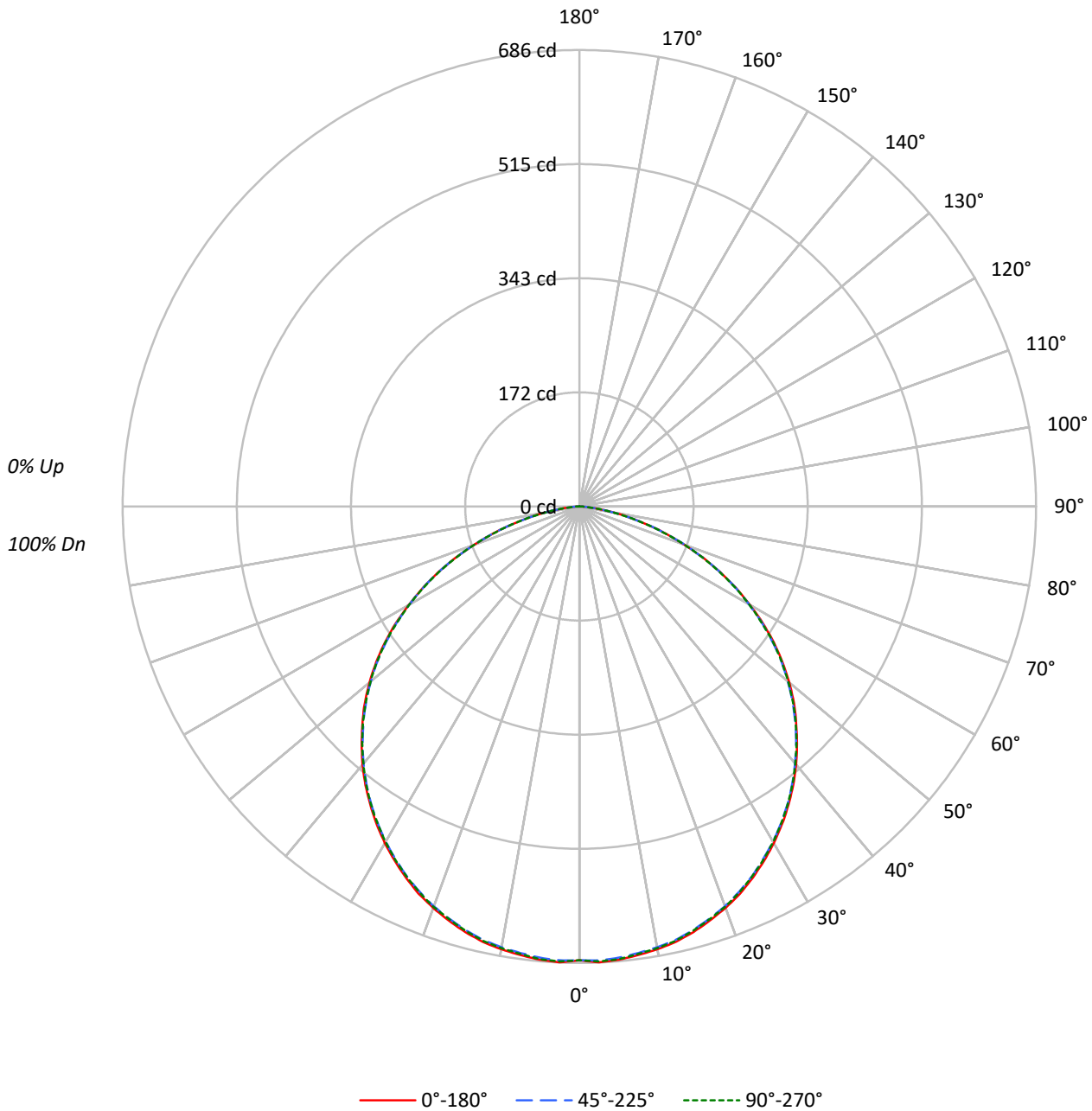
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.2 lumens
Efficiency: N/A
Efficacy: 100.9 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°	1835	1835	1835
5°	1847	1839	1844
10°	1846	1838	1842
15°	1845	1836	1839
20°	1838	1831	1834
25°	1829	1821	1822
30°	1816	1808	1809
35°	1799	1792	1793
40°	1780	1771	1773
45°	1754	1746	1749
50°	1723	1711	1714
55°	1674	1660	1666
60°	1591	1584	1584
65°	1486	1483	1478
70°	1316	1323	1319
75°	1108	1099	1091
80°	797	783	776
85°	417	417	404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1754 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.4
10°-20°	185.7	9.7
20°-30°	282.2	14.8
30°-40°	341.1	17.9
40°-50°	354.1	18.6
50°-60°	316.5	16.6
60°-70°	230.1	12.1
70°-80°	113.2	5.9
80°-90°	19.6	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°	532.5	27.9
0°-40°	873.6	45.8
0°-60°	1544.2	81.0
0°-90°	1907.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	684	676	681	678	683	65
15°	662	655	659	658	660	187
25°	616	609	613	612	614	284
35°	548	544	546	546	546	343
45°	461	459	459	460	460	355
55°	357	355	354	355	355	318
65°	233	234	233	233	232	230
75°	107	107	106	106	105	113
85°	14	14	14	14	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.0	682.0	682.0	682.0	682.0
2.5°	685.8	677.8	682.8	679.9	684.5
5°	683.7	675.7	680.7	678.2	682.8
7.5°	679.9	671.9	676.9	674.4	678.2
10°	675.7	667.3	672.7	670.2	674.0
12.5°	670.2	662.2	667.3	665.1	668.5
15°	662.2	654.6	659.2	657.6	660.1
17.5°	652.5	644.9	649.6	648.3	650.4
20°	642.0	634.8	639.4	638.2	640.3
22.5°	630.2	622.6	626.8	626.0	627.7
25°	615.9	609.1	613.3	612.1	613.8
27.5°	600.7	594.4	597.7	597.7	598.6
30°	584.3	578.4	581.7	581.7	582.2
32.5°	566.6	561.9	564.0	564.5	564.5
35°	547.6	543.8	545.5	545.9	545.9
37.5°	527.8	524.0	525.3	526.1	526.1
40°	506.8	503.4	504.2	505.1	504.6
42.5°	484.0	481.5	481.9	482.7	482.7
45°	460.8	458.7	458.7	459.6	459.6
47.5°	437.3	435.1	434.3	435.1	435.1
50°	411.6	409.4	408.6	409.4	409.4
52.5°	384.6	382.5	382.5	382.5	382.9
55°	356.8	354.7	353.8	354.7	355.1
57.5°	327.3	326.5	325.2	325.6	324.4
60°	295.7	295.7	294.4	295.3	294.4
62.5°	265.0	265.8	264.5	264.5	263.7
65°	233.4	234.2	232.9	232.9	232.1
67.5°	200.9	202.2	200.5	200.5	199.7
70°	167.2	169.8	168.1	168.5	167.7
72.5°	136.9	138.2	136.5	136.5	135.6
75°	106.6	107.4	105.7	106.2	104.9
77.5°	76.7	77.9	76.2	76.7	76.2
80°	51.4	51.8	50.5	51.0	50.1
82.5°	29.9	30.3	29.9	29.5	29.1
85°	13.5	13.9	13.5	13.5	13.1
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)