

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: P973690

Luminaire Tested: FLR2-22-25-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973690
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

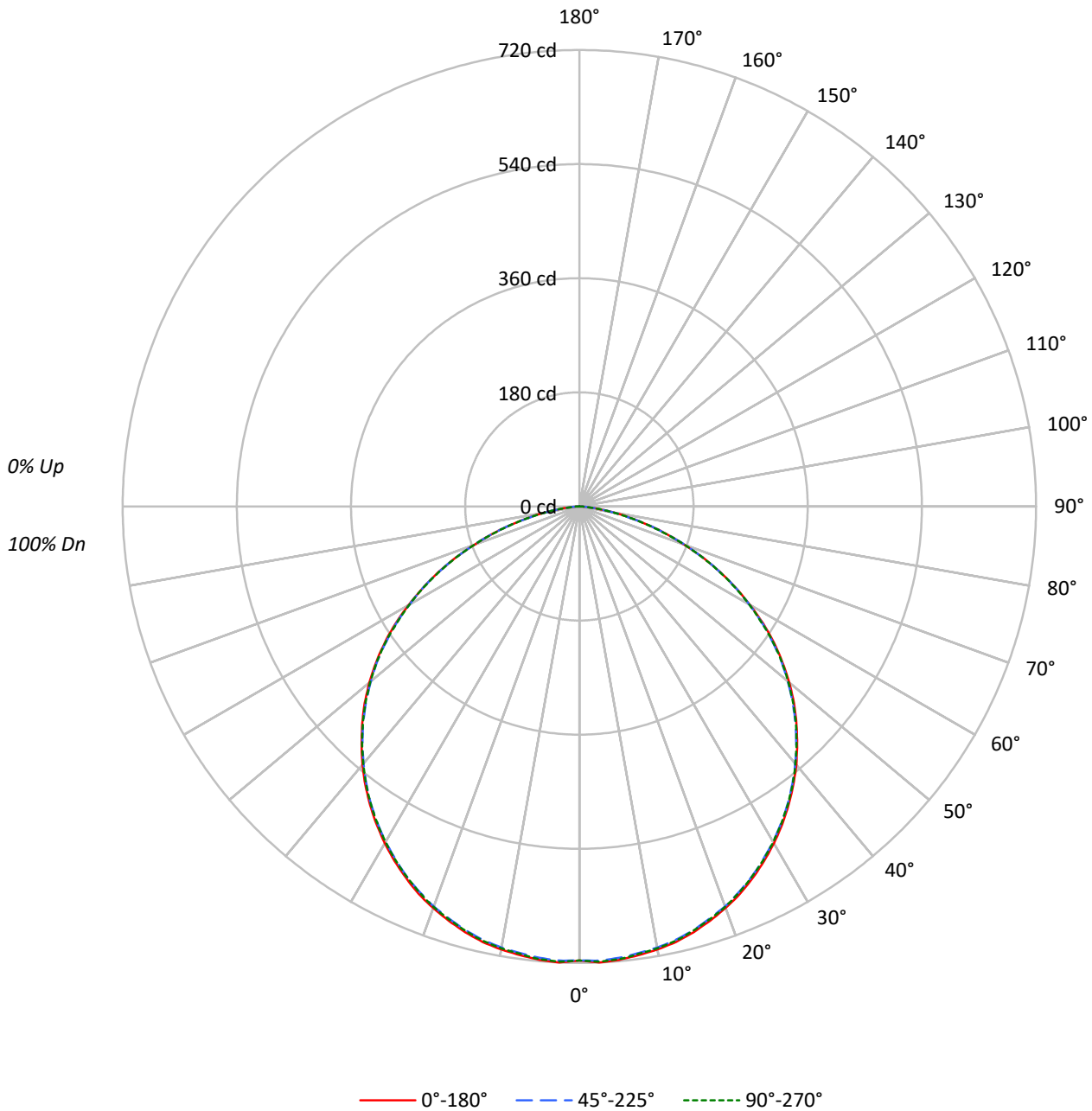
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.6 lumens
Efficiency: N/A
Efficacy: 106.0 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°	1927	1927	1927
5°	1939	1931	1937
10°	1939	1930	1934
15°	1937	1928	1931
20°	1930	1923	1925
25°	1920	1912	1913
30°	1906	1898	1899
35°	1889	1882	1883
40°	1869	1860	1861
45°	1842	1833	1837
50°	1809	1796	1800
55°	1757	1743	1749
60°	1671	1664	1664
65°	1560	1557	1552
70°	1382	1389	1385
75°	1163	1154	1145
80°	837	823	815
85°	438	438	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1842 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.4
10°-20°	195.0	9.7
20°-30°	296.3	14.8
30°-40°	358.2	17.9
40°-50°	371.8	18.6
50°-60°	332.4	16.6
60°-70°	241.7	12.1
70°-80°	118.8	5.9
80°-90°	20.6	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°	559.1	27.9
0°-40°	917.3	45.8
0°-60°	1621.5	81.0
0°-90°	2002.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	718	710	715	712	717	68
15°	695	687	692	690	693	196
25°	647	640	644	643	644	298
35°	575	571	573	573	573	360
45°	484	482	482	483	483	373
55°	375	372	372	372	373	334
65°	245	246	245	245	244	242
75°	112	113	111	112	110	119
85°	14	15	14	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.1	716.1	716.1	716.1	716.1
2.5°	720.1	711.7	717.0	713.9	718.7
5°	717.9	709.5	714.8	712.1	717.0
7.5°	713.9	705.5	710.8	708.1	712.1
10°	709.5	700.6	706.4	703.7	707.7
12.5°	703.7	695.3	700.6	698.4	701.9
15°	695.3	687.3	692.2	690.4	693.1
17.5°	685.1	677.2	682.0	680.7	682.9
20°	674.1	666.6	671.4	670.1	672.3
22.5°	661.7	653.7	658.2	657.3	659.0
25°	646.7	639.6	644.0	642.7	644.4
27.5°	630.7	624.1	627.6	627.6	628.5
30°	613.5	607.3	610.8	610.8	611.3
32.5°	594.9	590.0	592.2	592.7	592.7
35°	575.0	571.0	572.8	573.2	573.2
37.5°	554.2	550.2	551.6	552.4	552.4
40°	532.1	528.6	529.4	530.3	529.9
42.5°	508.2	505.6	506.0	506.9	506.9
45°	483.9	481.7	481.7	482.6	482.6
47.5°	459.1	456.9	456.0	456.9	456.9
50°	432.1	429.9	429.0	429.9	429.9
52.5°	403.8	401.6	401.6	401.6	402.1
55°	374.6	372.4	371.5	372.4	372.9
57.5°	343.7	342.8	341.5	341.9	340.6
60°	310.5	310.5	309.2	310.1	309.2
62.5°	278.2	279.1	277.8	277.8	276.9
65°	245.0	245.9	244.6	244.6	243.7
67.5°	211.0	212.3	210.5	210.5	209.7
70°	175.6	178.2	176.5	176.9	176.0
72.5°	143.7	145.1	143.3	143.3	142.4
75°	111.9	112.8	111.0	111.5	110.1
77.5°	80.5	81.8	80.1	80.5	80.1
80°	54.0	54.4	53.1	53.5	52.6
82.5°	31.4	31.8	31.4	31.0	30.5
85°	14.2	14.6	14.2	14.2	13.7
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)