

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: P973685

Luminaire Tested: FLR2-22-20-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973685
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: FLR2-22-20-L850-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

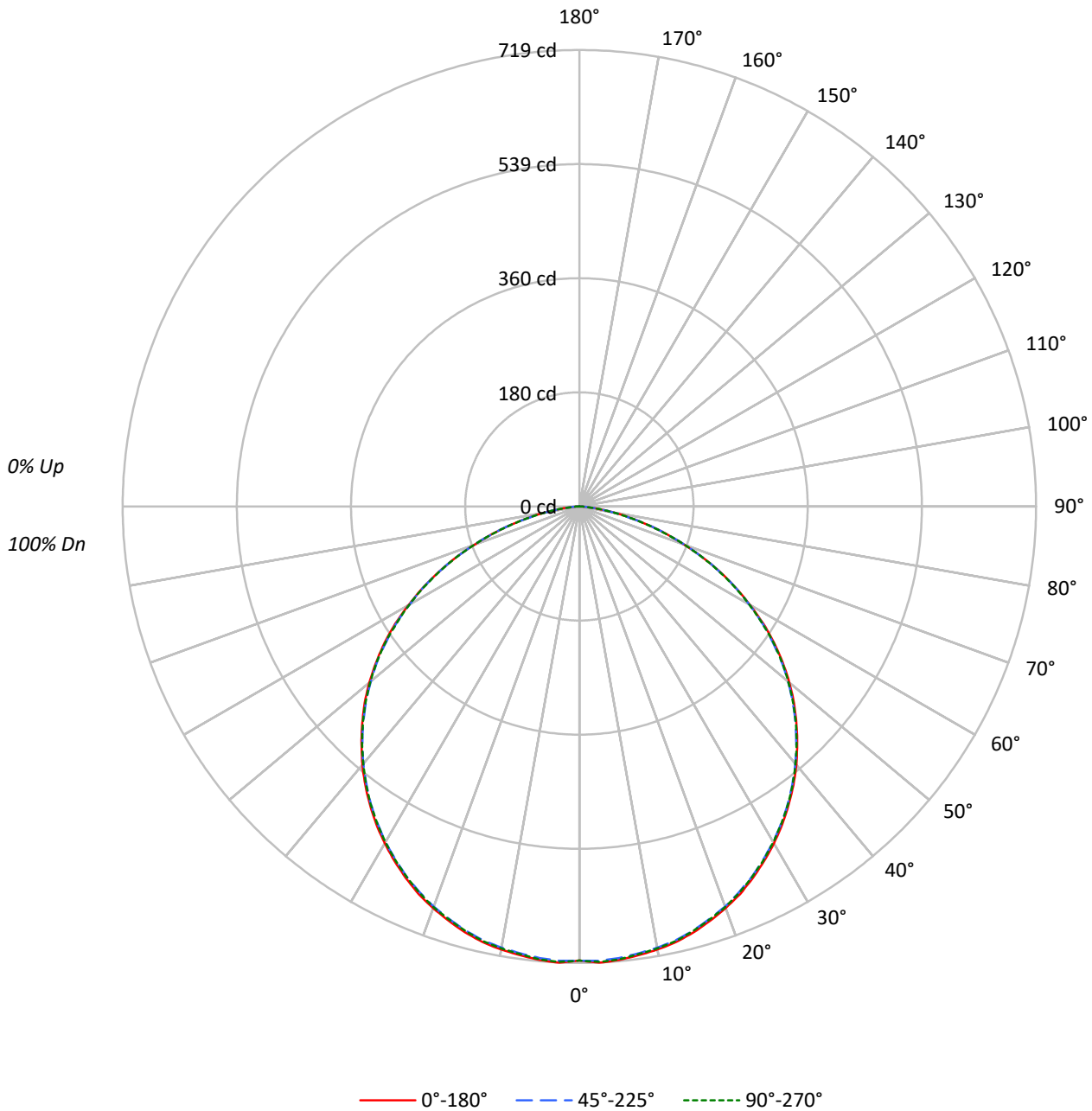
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.4 lumens
Efficiency: N/A
Efficacy: 132.5 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): 15.1
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°	1925	1925	1925
5°	1937	1929	1935
10°	1937	1928	1932
15°	1935	1926	1929
20°	1928	1921	1923
25°	1918	1910	1911
30°	1904	1896	1897
35°	1887	1880	1881
40°	1867	1858	1859
45°	1840	1831	1834
50°	1807	1794	1798
55°	1756	1741	1748
60°	1669	1662	1662
65°	1559	1556	1550
70°	1380	1387	1383
75°	1162	1153	1144
80°	835	821	815
85°	435	435	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.4
10°-20°	194.8	9.7
20°-30°	296.0	14.8
30°-40°	357.8	17.9
40°-50°	371.4	18.6
50°-60°	332.0	16.6
60°-70°	241.4	12.1
70°-80°	118.7	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°	558.5	27.9
0°-40°	916.3	45.8
0°-60°	1619.7	81.0
0°-90°	2000.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	717	709	714	711	716	68
15°	695	687	692	690	692	196
25°	646	639	643	642	644	298
35°	574	570	572	573	573	359
45°	483	481	481	482	482	373
55°	374	372	371	372	372	334
65°	245	246	244	244	243	241
75°	112	113	111	111	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°	715.3	715.3	715.3	715.3	715.3
2.5°	719.3	710.9	716.2	713.1	718.0
5°	717.1	708.7	714.0	711.3	716.2
7.5°	713.1	704.7	710.0	707.4	711.3
10°	708.7	699.9	705.6	703.0	706.9
12.5°	703.0	694.6	699.9	697.6	701.2
15°	694.6	686.6	691.5	689.7	692.3
17.5°	684.4	676.4	681.3	680.0	682.2
20°	673.3	665.8	670.7	669.4	671.6
22.5°	661.0	653.0	657.4	656.6	658.3
25°	646.0	638.9	643.3	642.0	643.7
27.5°	630.0	623.4	627.0	627.0	627.8
30°	612.8	606.6	610.2	610.2	610.6
32.5°	594.3	589.4	591.6	592.1	592.1
35°	574.4	570.4	572.2	572.6	572.6
37.5°	553.6	549.6	551.0	551.8	551.8
40°	531.5	528.0	528.9	529.8	529.3
42.5°	507.7	505.0	505.5	506.3	506.3
45°	483.4	481.2	481.2	482.0	482.0
47.5°	458.6	456.4	455.5	456.4	456.4
50°	431.7	429.5	428.6	429.5	429.5
52.5°	403.4	401.2	401.2	401.2	401.6
55°	374.2	372.0	371.1	372.0	372.5
57.5°	343.3	342.4	341.1	341.5	340.2
60°	310.2	310.2	308.8	309.7	308.8
62.5°	277.9	278.8	277.5	277.5	276.6
65°	244.8	245.7	244.3	244.3	243.4
67.5°	210.8	212.1	210.3	210.3	209.4
70°	175.4	178.1	176.3	176.7	175.8
72.5°	143.6	144.9	143.2	143.2	142.3
75°	111.8	112.7	110.9	111.3	110.0
77.5°	80.4	81.7	80.0	80.4	80.0
80°	53.9	54.3	53.0	53.5	52.6
82.5°	31.4	31.8	31.4	30.9	30.5
85°	14.1	14.6	14.1	14.1	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)