

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: P974439

Luminaire Tested: FLR2-24-65-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-65-L850-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L850-CA080
Ballast/Driver: -

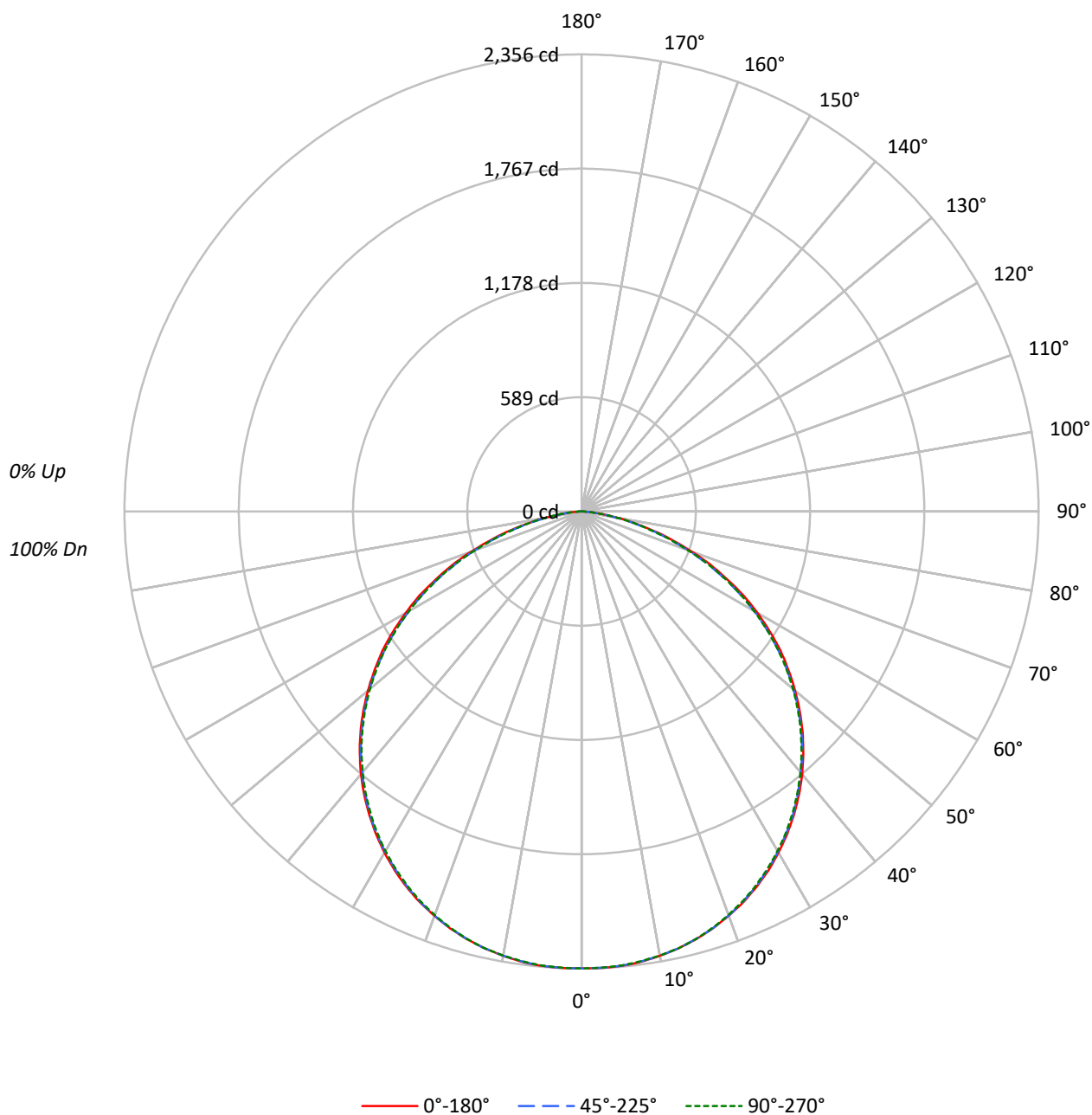
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6658.1 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3170	3170	3170
5°	3176	3176	3174
10°	3178	3177	3176
15°	3179	3178	3178
20°	3176	3175	3170
25°	3170	3163	3158
30°	3156	3147	3140
35°	3135	3127	3116
40°	3107	3088	3084
45°	3067	3049	3040
50°	3010	2987	2978
55°	2939	2897	2893
60°	2816	2766	2766
65°	2635	2573	2581
70°	2371	2298	2291
75°	1991	1912	1903
80°	1454	1382	1441
85°	823	756	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3067 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	3.4
10°-20°	644.2	9.7
20°-30°	982.2	14.8
30°-40°	1190.0	17.9
40°-50°	1236.1	18.6
50°-60°	1105.7	16.6
60°-70°	805.9	12.1
70°-80°	399.1	6.0
80°-90°	71.4	1.1
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°	1850.0	27.8
0°-40°	3039.9	45.7
0°-60°	5381.7	80.8
0°-90°	6658.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6658.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2356	2356	2356	2356	2356	
5°	2352	2352	2352	2352	2350	224
15°	2282	2281	2281	2283	2281	644
25°	2135	2133	2131	2130	2128	984
35°	1909	1906	1904	1900	1897	1194
45°	1612	1608	1603	1599	1598	1242
55°	1253	1243	1235	1235	1233	1116
65°	828	821	808	812	811	820
75°	383	377	368	374	366	408
85°	53	49	49	50	50	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2355.8	2355.8	2355.8	2355.8	2355.8
2.5°	2355.8	2354.9	2354.9	2355.8	2354.1
5°	2351.5	2352.4	2351.5	2351.5	2349.8
7.5°	2342.2	2341.4	2340.5	2341.4	2338.9
10°	2326.2	2326.2	2325.3	2326.2	2324.5
12.5°	2306.7	2306.7	2306.7	2307.6	2306.7
15°	2282.2	2281.4	2281.4	2283.1	2281.4
17.5°	2253.5	2252.6	2252.6	2251.8	2250.1
20°	2218.0	2218.0	2217.1	2216.3	2213.8
22.5°	2179.9	2179.1	2176.6	2176.6	2173.2
25°	2135.1	2132.6	2130.9	2130.1	2127.5
27.5°	2086.1	2082.7	2080.2	2078.5	2076.0
30°	2031.2	2027.8	2025.3	2022.7	2021.0
32.5°	1972.0	1970.3	1966.1	1965.2	1961.9
35°	1908.6	1906.1	1903.5	1900.2	1896.8
37.5°	1841.0	1838.5	1832.5	1830.8	1828.3
40°	1769.1	1765.8	1758.2	1758.2	1755.6
42.5°	1692.2	1688.8	1683.8	1680.4	1678.7
45°	1611.9	1608.5	1602.6	1599.2	1597.6
47.5°	1526.6	1524.0	1517.3	1514.7	1512.2
50°	1437.8	1434.4	1426.8	1425.1	1422.6
52.5°	1344.8	1343.1	1333.0	1332.1	1329.6
55°	1252.7	1243.4	1234.9	1234.9	1233.2
57.5°	1151.3	1144.5	1133.5	1133.5	1131.8
60°	1046.4	1040.5	1027.8	1029.5	1027.8
62.5°	944.2	931.5	919.6	924.7	920.5
65°	827.5	820.8	808.1	811.5	810.6
67.5°	721.0	708.3	696.5	703.3	699.9
70°	602.7	595.9	584.1	590.8	582.4
72.5°	491.1	485.2	473.3	481.0	472.5
75°	382.9	377.0	367.7	374.5	366.0
77.5°	280.6	276.4	267.9	274.7	276.4
80°	187.6	182.6	178.4	184.3	186.0
82.5°	109.9	106.5	104.8	105.7	109.9
85°	53.3	49.0	49.0	49.9	49.9
87.5°	14.4	12.7	14.4	15.2	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)