

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: P974395

Luminaire Tested: FLR2-24-35-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974395
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: FLR2-24-35-L850-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L850-CP080
Ballast/Driver: -

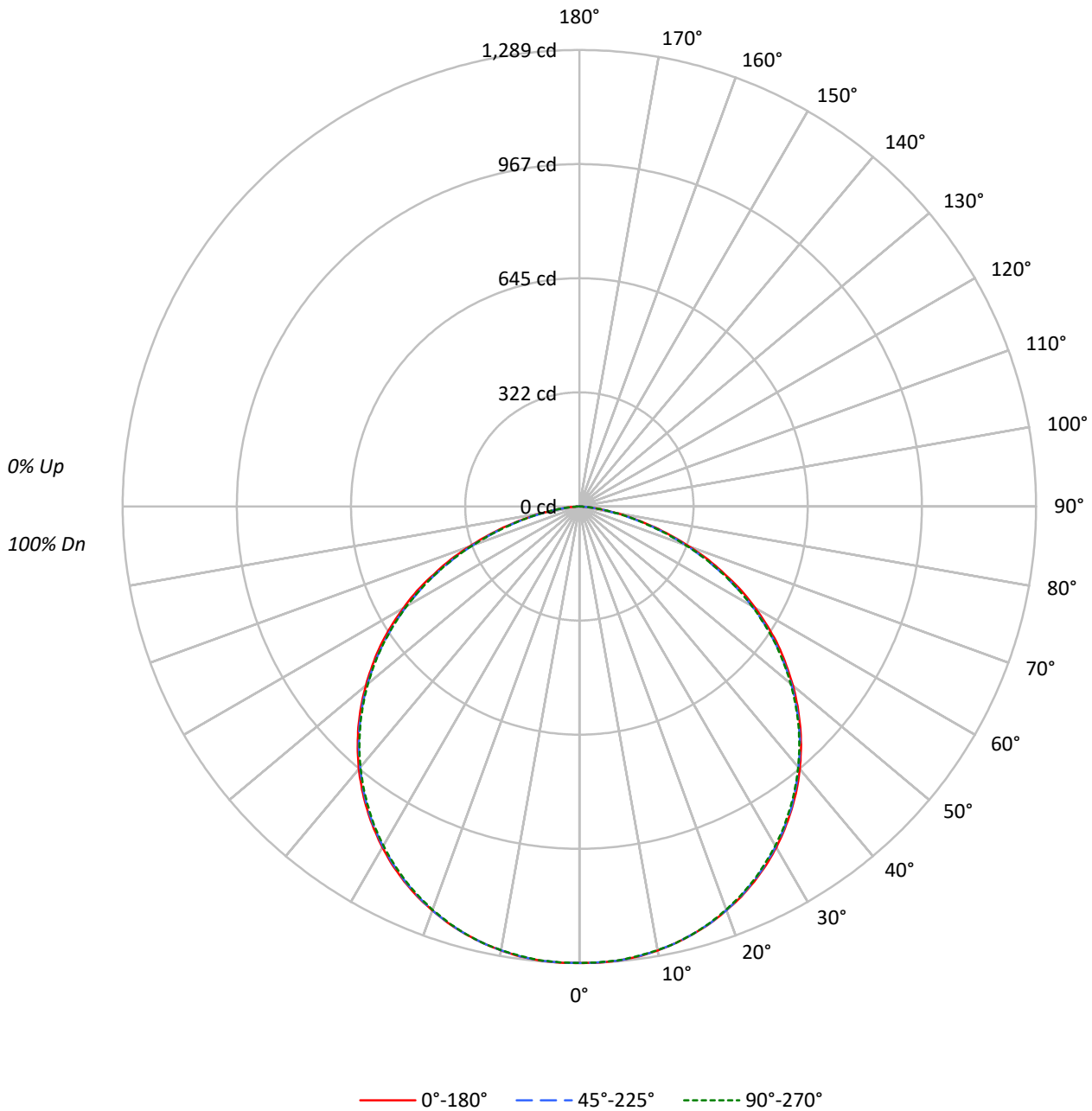
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3644.1 lumens
Efficiency: N/A
Efficacy: 128.3 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): 28.4
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										
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	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°	1735	1735	1735
5°	1738	1738	1737
10°	1740	1739	1738
15°	1740	1739	1739
20°	1738	1738	1735
25°	1735	1731	1729
30°	1727	1722	1718
35°	1716	1711	1705
40°	1701	1690	1688
45°	1679	1669	1664
50°	1647	1635	1630
55°	1608	1586	1583
60°	1541	1514	1514
65°	1442	1408	1413
70°	1298	1258	1254
75°	1090	1046	1041
80°	796	756	789
85°	449	414	421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1679 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.4
10°-20°	352.6	9.7
20°-30°	537.6	14.8
30°-40°	651.3	17.9
40°-50°	676.5	18.6
50°-60°	605.2	16.6
60°-70°	441.1	12.1
70°-80°	218.4	6.0
80°-90°	39.0	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°	1012.5	27.8
0°-40°	1663.8	45.7
0°-60°	2945.5	80.8
0°-90°	3644.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3644.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1287	1288	1287	1287	1286	122
15°	1249	1249	1249	1250	1249	353
25°	1169	1167	1166	1166	1164	539
35°	1045	1043	1042	1040	1038	653
45°	882	880	877	875	874	680
55°	686	680	676	676	675	611
65°	453	449	442	444	444	449
75°	210	206	201	205	200	223
85°	29	27	27	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1289.3	1288.9	1288.9	1289.3	1288.4
5°	1287.0	1287.5	1287.0	1287.0	1286.1
7.5°	1281.9	1281.5	1281.0	1281.5	1280.1
10°	1273.2	1273.2	1272.7	1273.2	1272.2
12.5°	1262.5	1262.5	1262.5	1263.0	1262.5
15°	1249.1	1248.6	1248.6	1249.6	1248.6
17.5°	1233.4	1232.9	1232.9	1232.4	1231.5
20°	1213.9	1213.9	1213.5	1213.0	1211.6
22.5°	1193.1	1192.7	1191.3	1191.3	1189.4
25°	1168.6	1167.2	1166.3	1165.8	1164.4
27.5°	1141.8	1139.9	1138.5	1137.6	1136.2
30°	1111.7	1109.8	1108.5	1107.1	1106.1
32.5°	1079.3	1078.4	1076.1	1075.6	1073.8
35°	1044.6	1043.2	1041.8	1040.0	1038.1
37.5°	1007.6	1006.2	1003.0	1002.1	1000.7
40°	968.3	966.4	962.3	962.3	960.9
42.5°	926.2	924.3	921.6	919.7	918.8
45°	882.2	880.4	877.1	875.3	874.4
47.5°	835.5	834.1	830.4	829.0	827.6
50°	786.9	785.1	780.9	780.0	778.6
52.5°	736.0	735.1	729.6	729.1	727.7
55°	685.6	680.5	675.9	675.9	675.0
57.5°	630.1	626.4	620.4	620.4	619.5
60°	572.7	569.5	562.6	563.5	562.6
62.5°	516.8	509.8	503.3	506.1	503.8
65°	452.9	449.2	442.3	444.1	443.7
67.5°	394.6	387.7	381.2	384.9	383.1
70°	329.9	326.2	319.7	323.4	318.8
72.5°	268.8	265.5	259.1	263.2	258.6
75°	209.6	206.3	201.2	204.9	200.3
77.5°	153.6	151.3	146.7	150.4	151.3
80°	102.7	99.9	97.6	100.9	101.8
82.5°	60.1	58.3	57.4	57.8	60.1
85°	29.1	26.8	26.8	27.3	27.3
87.5°	7.9	6.9	7.9	8.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)