

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: P974435

Luminaire Tested: FLR2-24-35-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974435
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L850-CA080
Ballast/Driver: -

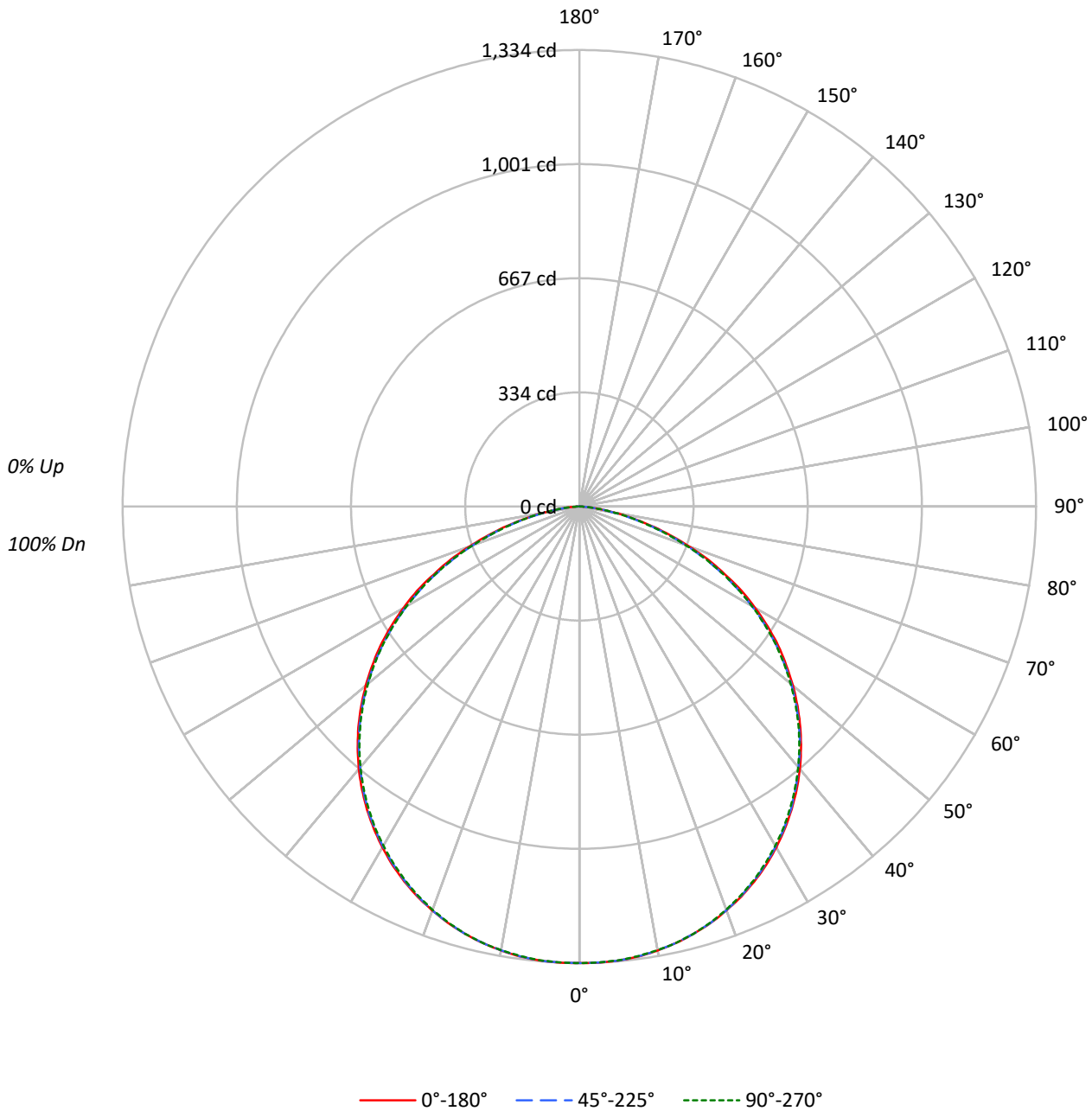
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3771.6 lumens
Efficiency: N/A
Efficacy: 132.8 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°	1796	1796	1796
5°	1799	1799	1798
10°	1800	1800	1799
15°	1801	1800	1800
20°	1799	1798	1796
25°	1796	1792	1789
30°	1788	1782	1779
35°	1776	1771	1765
40°	1760	1749	1747
45°	1737	1727	1722
50°	1705	1692	1687
55°	1665	1641	1639
60°	1595	1567	1567
65°	1493	1457	1462
70°	1343	1302	1298
75°	1128	1083	1078
80°	824	783	816
85°	466	429	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1737 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.4
10°-20°	364.9	9.7
20°-30°	556.4	14.8
30°-40°	674.1	17.9
40°-50°	700.2	18.6
50°-60°	626.4	16.6
60°-70°	456.5	12.1
70°-80°	226.1	6.0
80°-90°	40.4	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°	1047.9	27.8
0°-40°	1722.0	45.7
0°-60°	3048.6	80.8
0°-90°	3771.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1332	1332	1332	1332	1331	127
15°	1293	1292	1292	1293	1292	365
25°	1210	1208	1207	1207	1205	557
35°	1081	1080	1078	1076	1074	676
45°	913	911	908	906	905	704
55°	710	704	700	700	699	632
65°	469	465	458	460	459	465
75°	217	214	208	212	207	231
85°	30	28	28	28	28	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.5	1334.5	1334.5	1334.5	1334.5
2.5°	1334.5	1334.0	1334.0	1334.5	1333.5
5°	1332.1	1332.5	1332.1	1332.1	1331.1
7.5°	1326.8	1326.3	1325.8	1326.3	1324.9
10°	1317.7	1317.7	1317.2	1317.7	1316.7
12.5°	1306.7	1306.7	1306.7	1307.2	1306.7
15°	1292.8	1292.3	1292.3	1293.3	1292.3
17.5°	1276.5	1276.0	1276.0	1275.6	1274.6
20°	1256.4	1256.4	1255.9	1255.4	1254.0
22.5°	1234.9	1234.4	1232.9	1232.9	1231.0
25°	1209.5	1208.0	1207.1	1206.6	1205.2
27.5°	1181.7	1179.8	1178.4	1177.4	1176.0
30°	1150.6	1148.7	1147.2	1145.8	1144.8
32.5°	1117.1	1116.1	1113.7	1113.2	1111.3
35°	1081.2	1079.7	1078.3	1076.4	1074.5
37.5°	1042.9	1041.4	1038.1	1037.1	1035.7
40°	1002.2	1000.2	995.9	995.9	994.5
42.5°	958.6	956.7	953.8	951.9	950.9
45°	913.1	911.2	907.8	905.9	905.0
47.5°	864.7	863.3	859.5	858.0	856.6
50°	814.5	812.5	808.2	807.3	805.8
52.5°	761.8	760.8	755.1	754.6	753.2
55°	709.6	704.3	699.5	699.5	698.6
57.5°	652.1	648.3	642.1	642.1	641.1
60°	592.8	589.4	582.2	583.2	582.2
62.5°	534.8	527.7	520.9	523.8	521.4
65°	468.8	464.9	457.7	459.7	459.2
67.5°	408.4	401.2	394.5	398.4	396.5
70°	341.4	337.6	330.9	334.7	329.9
72.5°	278.2	274.8	268.1	272.4	267.7
75°	216.9	213.6	208.3	212.1	207.3
77.5°	159.0	156.6	151.8	155.6	156.6
80°	106.3	103.4	101.0	104.4	105.3
82.5°	62.2	60.3	59.4	59.9	62.2
85°	30.2	27.8	27.8	28.3	28.3
87.5°	8.1	7.2	8.1	8.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)