

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: P974220

Luminaire Tested: FLR2-24-40-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974220
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: FLR2-24-40-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L835-CA125
Ballast/Driver: -

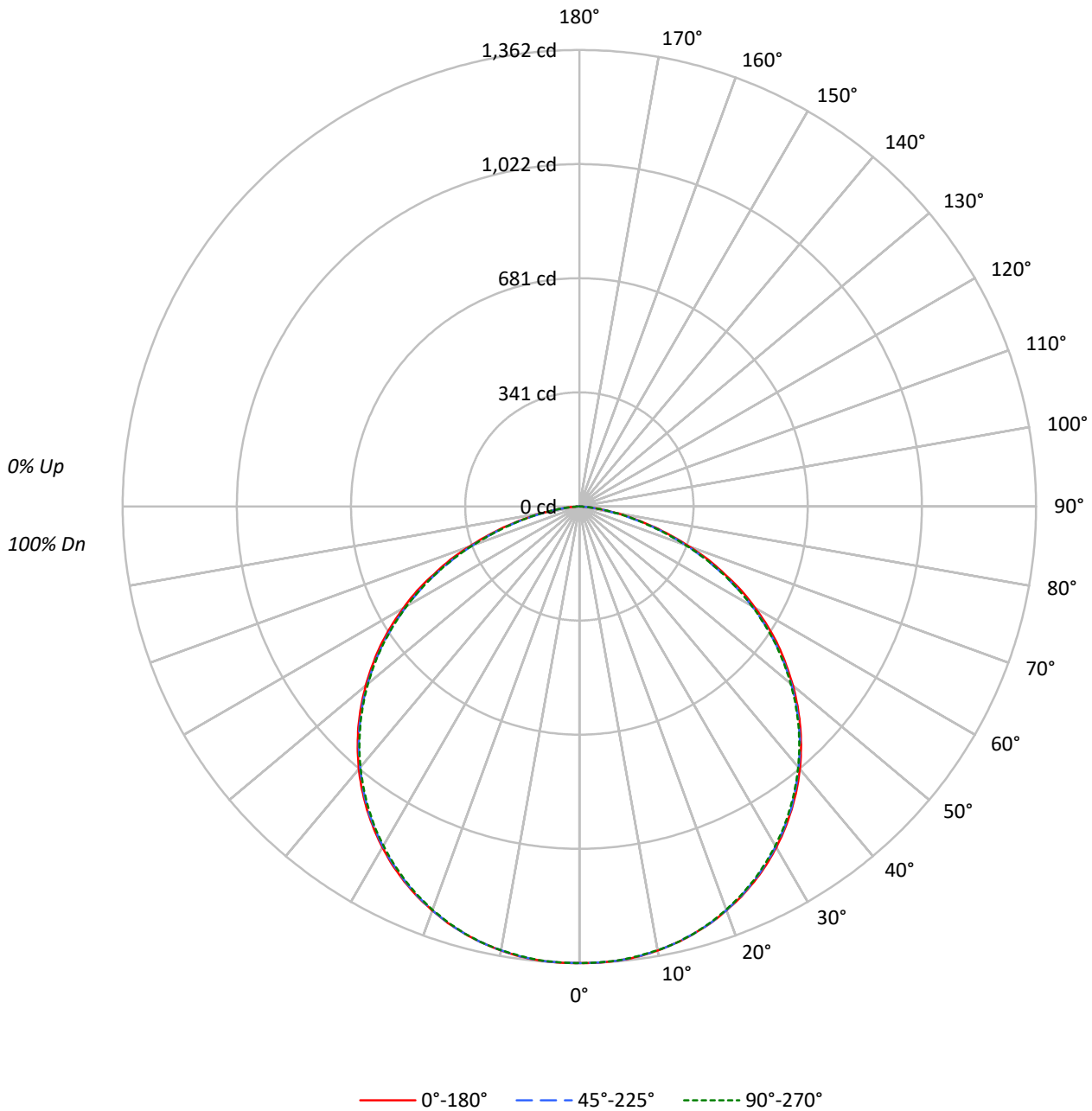
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850.9 lumens
Efficiency: N/A
Efficacy: 127.1 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): 30.3
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1833	1833	1833
5°	1837	1837	1836
10°	1838	1837	1837
15°	1839	1838	1838
20°	1837	1836	1833
25°	1833	1830	1827
30°	1825	1820	1816
35°	1813	1808	1802
40°	1797	1786	1783
45°	1774	1764	1758
50°	1741	1727	1722
55°	1700	1676	1673
60°	1629	1600	1600
65°	1524	1488	1493
70°	1371	1329	1325
75°	1151	1106	1101
80°	841	800	834
85°	475	438	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1774 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.4
10°-20°	372.6	9.7
20°-30°	568.1	14.8
30°-40°	688.2	17.9
40°-50°	714.9	18.6
50°-60°	639.5	16.6
60°-70°	466.1	12.1
70°-80°	230.8	6.0
80°-90°	41.3	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°	1070.0	27.8
0°-40°	1758.2	45.7
0°-60°	3112.7	80.8
0°-90°	3850.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1360	1361	1360	1360	1359	129
15°	1320	1320	1320	1320	1320	373
25°	1235	1233	1232	1232	1230	569
35°	1104	1102	1101	1099	1097	690
45°	932	930	927	925	924	718
55°	724	719	714	714	713	646
65°	479	475	467	469	469	474
75°	222	218	213	217	212	236
85°	31	28	28	29	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.5	1362.5	1362.5	1362.5	1362.5
2.5°	1362.5	1362.0	1362.0	1362.5	1361.5
5°	1360.1	1360.6	1360.1	1360.1	1359.1
7.5°	1354.7	1354.2	1353.7	1354.2	1352.7
10°	1345.4	1345.4	1344.9	1345.4	1344.4
12.5°	1334.2	1334.2	1334.2	1334.6	1334.2
15°	1320.0	1319.5	1319.5	1320.5	1319.5
17.5°	1303.4	1302.9	1302.9	1302.4	1301.4
20°	1282.8	1282.8	1282.3	1281.8	1280.4
22.5°	1260.8	1260.3	1258.9	1258.9	1256.9
25°	1234.9	1233.4	1232.5	1232.0	1230.5
27.5°	1206.6	1204.6	1203.1	1202.2	1200.7
30°	1174.8	1172.8	1171.4	1169.9	1168.9
32.5°	1140.6	1139.6	1137.1	1136.6	1134.7
35°	1103.9	1102.4	1101.0	1099.0	1097.0
37.5°	1064.8	1063.3	1059.9	1058.9	1057.4
40°	1023.2	1021.3	1016.9	1016.9	1015.4
42.5°	978.7	976.8	973.8	971.9	970.9
45°	932.3	930.3	926.9	925.0	924.0
47.5°	882.9	881.5	877.5	876.1	874.6
50°	831.6	829.6	825.2	824.3	822.8
52.5°	777.8	776.8	771.0	770.5	769.0
55°	724.5	719.1	714.3	714.3	713.3
57.5°	665.9	661.9	655.6	655.6	654.6
60°	605.2	601.8	594.5	595.5	594.5
62.5°	546.1	538.7	531.9	534.8	532.4
65°	478.6	474.7	467.4	469.3	468.8
67.5°	417.0	409.7	402.8	406.7	404.8
70°	348.6	344.7	337.8	341.7	336.8
72.5°	284.0	280.6	273.8	278.2	273.3
75°	221.5	218.0	212.7	216.6	211.7
77.5°	162.3	159.9	155.0	158.9	159.9
80°	108.5	105.6	103.2	106.6	107.6
82.5°	63.6	61.6	60.6	61.1	63.6
85°	30.8	28.4	28.4	28.8	28.8
87.5°	8.3	7.3	8.3	8.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)