

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: P974239

Luminaire Tested: FLR2-24-65-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974239
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-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L935-CP125
Ballast/Driver: -

Summary

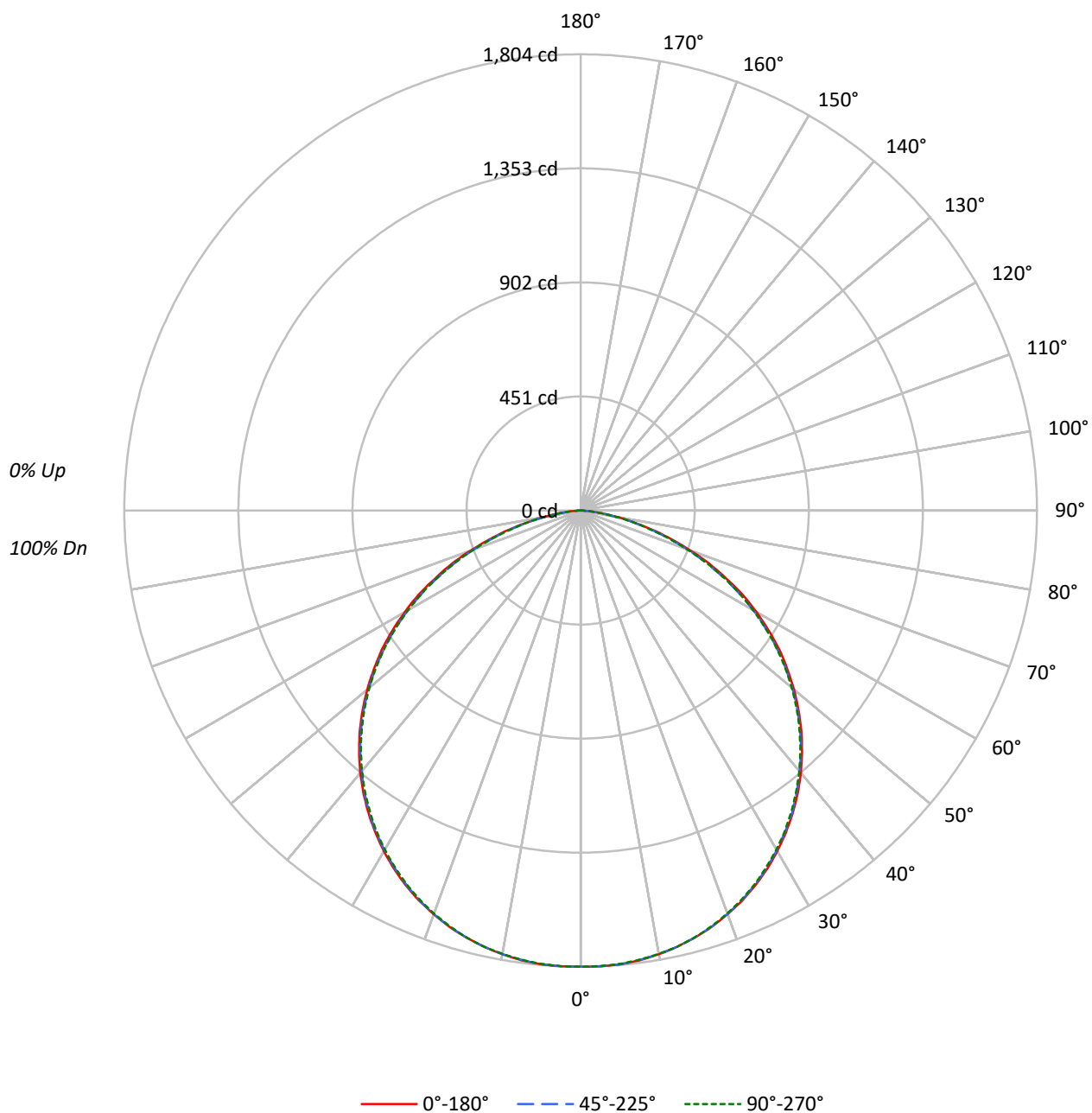
Lumens per Lamp: N/A
Luminaire Lumens: 5099.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2428	2428	2428
5°	2432	2432	2431
10°	2434	2433	2432
15°	2435	2434	2434
20°	2432	2431	2428
25°	2428	2423	2419
30°	2417	2410	2405
35°	2401	2395	2386
40°	2380	2365	2362
45°	2349	2336	2328
50°	2305	2287	2281
55°	2251	2219	2216
60°	2157	2118	2118
65°	2018	1970	1976
70°	1816	1760	1755
75°	1525	1464	1457
80°	1113	1058	1103
85°	630	579	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2349 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	3.4
10°-20°	493.4	9.7
20°-30°	752.2	14.8
30°-40°	911.4	17.9
40°-50°	946.7	18.6
50°-60°	846.9	16.6
60°-70°	617.2	12.1
70°-80°	305.7	6.0
80°-90°	54.6	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°	1416.9	27.8
0°-40°	2328.2	45.7
0°-60°	4121.8	80.8
0°-90°	5099.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5099.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1801	1802	1801	1801	1800	171
15°	1748	1747	1747	1749	1747	494
25°	1635	1633	1632	1631	1629	754
35°	1462	1460	1458	1455	1453	914
45°	1234	1232	1227	1225	1224	951
55°	959	952	946	946	944	855
65°	634	629	619	622	621	628
75°	293	289	282	287	280	313
85°	41	38	38	38	38	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.2	1804.2	1804.2	1804.2	1804.2
2.5°	1804.2	1803.6	1803.6	1804.2	1802.9
5°	1801.0	1801.6	1801.0	1801.0	1799.7
7.5°	1793.9	1793.2	1792.6	1793.2	1791.3
10°	1781.6	1781.6	1780.9	1781.6	1780.3
12.5°	1766.7	1766.7	1766.7	1767.3	1766.7
15°	1747.9	1747.3	1747.3	1748.6	1747.3
17.5°	1725.9	1725.3	1725.3	1724.6	1723.3
20°	1698.7	1698.7	1698.1	1697.4	1695.5
22.5°	1669.6	1668.9	1667.0	1667.0	1664.4
25°	1635.3	1633.3	1632.0	1631.4	1629.4
27.5°	1597.7	1595.1	1593.2	1591.9	1590.0
30°	1555.6	1553.1	1551.1	1549.2	1547.9
32.5°	1510.3	1509.0	1505.8	1505.1	1502.6
35°	1461.8	1459.8	1457.9	1455.3	1452.7
37.5°	1410.0	1408.0	1403.5	1402.2	1400.3
40°	1355.0	1352.4	1346.5	1346.5	1344.6
42.5°	1296.0	1293.5	1289.6	1287.0	1285.7
45°	1234.5	1232.0	1227.4	1224.8	1223.5
47.5°	1169.2	1167.2	1162.0	1160.1	1158.2
50°	1101.2	1098.6	1092.8	1091.5	1089.5
52.5°	1030.0	1028.7	1020.9	1020.3	1018.3
55°	959.4	952.3	945.8	945.8	944.5
57.5°	881.7	876.5	868.1	868.1	866.8
60°	801.5	796.9	787.2	788.5	787.2
62.5°	723.1	713.4	704.3	708.2	705.0
65°	633.8	628.6	618.9	621.5	620.8
67.5°	552.2	542.5	533.4	538.6	536.0
70°	461.6	456.4	447.3	452.5	446.0
72.5°	376.1	371.6	362.5	368.4	361.9
75°	293.3	288.7	281.6	286.8	280.3
77.5°	214.9	211.7	205.2	210.4	211.7
80°	143.7	139.8	136.6	141.1	142.4
82.5°	84.2	81.6	80.3	80.9	84.2
85°	40.8	37.5	37.5	38.2	38.2
87.5°	11.0	9.7	11.0	11.7	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)