

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: P974994

Luminaire Tested: FLR2-24-55HE-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974994
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: FLR2-24-55HE-L850-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

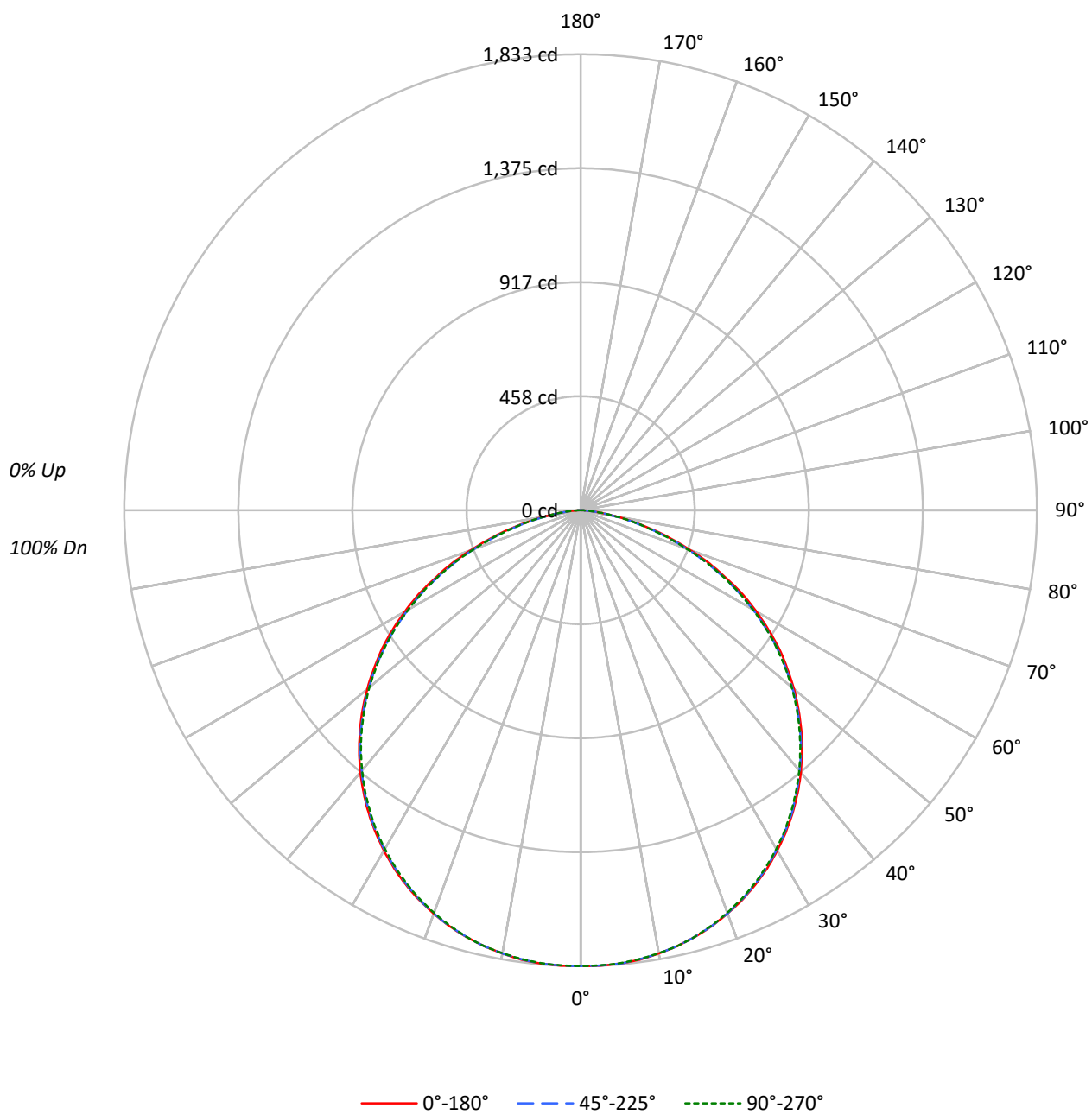
Lumens per Lamp: N/A
Luminaire Lumens: 5180.9 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
Input Voltage (V):
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°	2466	2466	2466
5°	2471	2471	2470
10°	2473	2472	2471
15°	2474	2473	2473
20°	2471	2470	2466
25°	2466	2462	2458
30°	2456	2448	2443
35°	2439	2433	2424
40°	2418	2403	2399
45°	2387	2373	2365
50°	2342	2324	2317
55°	2287	2254	2251
60°	2191	2152	2152
65°	2050	2002	2008
70°	1845	1788	1783
75°	1549	1487	1481
80°	1131	1075	1121
85°	639	588	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	3.4
10°-20°	501.3	9.7
20°-30°	764.3	14.8
30°-40°	926.0	17.9
40°-50°	961.8	18.6
50°-60°	860.4	16.6
60°-70°	627.1	12.1
70°-80°	310.6	6.0
80°-90°	55.5	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°	1439.5	27.8
0°-40°	2365.5	45.7
0°-60°	4187.7	80.8
0°-90°	5180.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1830	1830	1830	1830	1828	174
15°	1776	1775	1775	1776	1775	501
25°	1661	1660	1658	1658	1656	766
35°	1485	1483	1481	1479	1476	929
45°	1254	1252	1247	1244	1243	967
55°	975	968	961	961	960	868
65°	644	639	629	631	631	638
75°	298	293	286	291	285	318
85°	41	38	38	39	39	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.1	1833.1	1833.1	1833.1	1833.1
2.5°	1833.1	1832.4	1832.4	1833.1	1831.8
5°	1829.8	1830.5	1829.8	1829.8	1828.5
7.5°	1822.6	1821.9	1821.3	1821.9	1819.9
10°	1810.1	1810.1	1809.4	1810.1	1808.8
12.5°	1794.9	1794.9	1794.9	1795.6	1794.9
15°	1775.9	1775.2	1775.2	1776.5	1775.2
17.5°	1753.5	1752.9	1752.9	1752.2	1750.9
20°	1725.9	1725.9	1725.2	1724.6	1722.6
22.5°	1696.3	1695.6	1693.7	1693.7	1691.0
25°	1661.4	1659.5	1658.1	1657.5	1655.5
27.5°	1623.3	1620.6	1618.7	1617.4	1615.4
30°	1580.5	1577.9	1575.9	1573.9	1572.6
32.5°	1534.5	1533.2	1529.9	1529.2	1526.6
35°	1485.2	1483.2	1481.2	1478.6	1475.9
37.5°	1432.5	1430.6	1426.0	1424.6	1422.7
40°	1376.6	1374.0	1368.1	1368.1	1366.1
42.5°	1316.8	1314.1	1310.2	1307.6	1306.3
45°	1254.3	1251.7	1247.1	1244.4	1243.1
47.5°	1187.9	1185.9	1180.6	1178.7	1176.7
50°	1118.8	1116.2	1110.2	1108.9	1107.0
52.5°	1046.4	1045.1	1037.2	1036.6	1034.6
55°	974.8	967.5	960.9	960.9	959.6
57.5°	895.8	890.6	882.0	882.0	880.7
60°	814.3	809.7	799.8	801.1	799.8
62.5°	734.7	724.8	715.6	719.6	716.3
65°	643.9	638.7	628.8	631.4	630.8
67.5°	561.0	551.2	542.0	547.2	544.6
70°	469.0	463.7	454.5	459.8	453.2
72.5°	382.1	377.5	368.3	374.2	367.7
75°	298.0	293.3	286.1	291.4	284.8
77.5°	218.4	215.1	208.5	213.8	215.1
80°	146.0	142.1	138.8	143.4	144.7
82.5°	85.5	82.9	81.6	82.2	85.5
85°	41.4	38.1	38.1	38.8	38.8
87.5°	11.2	9.9	11.2	11.8	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)