

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: P975005

Luminaire Tested: FLR2-24-55HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975005
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

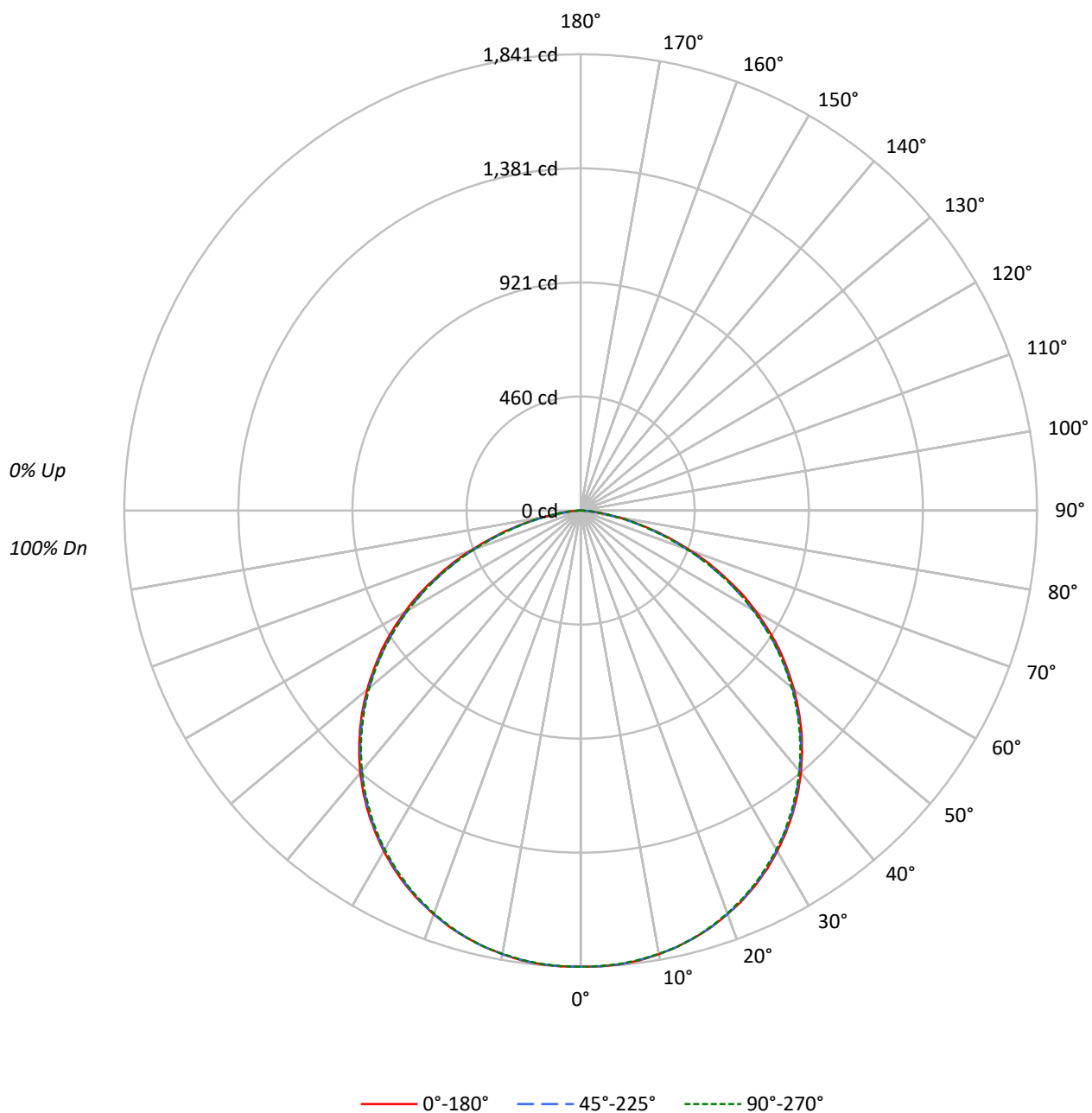
Lumens per Lamp: N/A
Luminaire Lumens: 5203.8 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P975005

CATALOG NUMBER: FLR2-24-55HE-L850-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P975005

CATALOG NUMBER: FLR2-24-55HE-L850-CP250

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°	2477	2477	2477
5°	2482	2482	2481
10°	2484	2483	2482
15°	2485	2484	2484
20°	2482	2481	2477
25°	2477	2473	2469
30°	2466	2459	2454
35°	2450	2444	2435
40°	2429	2413	2410
45°	2397	2383	2376
50°	2352	2334	2327
55°	2297	2264	2261
60°	2201	2162	2162
65°	2059	2011	2017
70°	1853	1796	1791
75°	1556	1494	1487
80°	1137	1080	1126
85°	642	591	602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2397 cd/sqm

TEST NUMBER: P975005
CATALOG NUMBER: FLR2-24-55HE-L850-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	3.4
10°-20°	503.5	9.7
20°-30°	767.6	14.8
30°-40°	930.1	17.9
40°-50°	966.1	18.6
50°-60°	864.2	16.6
60°-70°	629.9	12.1
70°-80°	311.9	6.0
80°-90°	55.8	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°	1445.9	27.8
0°-40°	2376.0	45.7
0°-60°	4206.3	80.8
0°-90°	5203.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1838	1839	1838	1838	1837	175
15°	1784	1783	1783	1784	1783	504
25°	1669	1667	1666	1665	1663	769
35°	1492	1490	1488	1485	1482	933
45°	1260	1257	1253	1250	1249	971
55°	979	972	965	965	964	872
65°	647	642	632	634	634	641
75°	299	295	287	293	286	319
85°	42	38	38	39	39	58
90°	0	0	0	0	0	

TEST NUMBER: P975005

CATALOG NUMBER: FLR2-24-55HE-L850-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.2	1841.2	1841.2	1841.2	1841.2
2.5°	1841.2	1840.6	1840.6	1841.2	1839.9
5°	1837.9	1838.6	1837.9	1837.9	1836.6
7.5°	1830.6	1830.0	1829.3	1830.0	1828.0
10°	1818.1	1818.1	1817.4	1818.1	1816.8
12.5°	1802.9	1802.9	1802.9	1803.6	1802.9
15°	1783.7	1783.1	1783.1	1784.4	1783.1
17.5°	1761.3	1760.6	1760.6	1760.0	1758.6
20°	1733.5	1733.5	1732.9	1732.2	1730.2
22.5°	1703.8	1703.1	1701.2	1701.2	1698.5
25°	1668.8	1666.8	1665.5	1664.8	1662.8
27.5°	1630.5	1627.8	1625.8	1624.5	1622.5
30°	1587.5	1584.9	1582.9	1580.9	1579.6
32.5°	1541.3	1540.0	1536.7	1536.0	1533.4
35°	1491.7	1489.8	1487.8	1485.1	1482.5
37.5°	1438.9	1436.9	1432.3	1431.0	1429.0
40°	1382.7	1380.1	1374.1	1374.1	1372.2
42.5°	1322.6	1320.0	1316.0	1313.4	1312.0
45°	1259.8	1257.2	1252.6	1249.9	1248.6
47.5°	1193.1	1191.1	1185.9	1183.9	1181.9
50°	1123.8	1121.1	1115.2	1113.8	1111.9
52.5°	1051.1	1049.8	1041.8	1041.2	1039.2
55°	979.1	971.8	965.2	965.2	963.9
57.5°	899.8	894.5	885.9	885.9	884.6
60°	817.9	813.3	803.3	804.7	803.3
62.5°	737.9	728.0	718.8	722.7	719.4
65°	646.8	641.5	631.6	634.2	633.6
67.5°	563.5	553.6	544.4	549.7	547.0
70°	471.0	465.8	456.5	461.8	455.2
72.5°	383.8	379.2	370.0	375.9	369.3
75°	299.3	294.6	287.4	292.7	286.1
77.5°	219.3	216.0	209.4	214.7	216.0
80°	146.7	142.7	139.4	144.0	145.3
82.5°	85.9	83.2	81.9	82.6	85.9
85°	41.6	38.3	38.3	39.0	39.0
87.5°	11.2	9.9	11.2	11.9	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)