

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: P974730

Luminaire Tested: FLR2-24-55HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974730
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

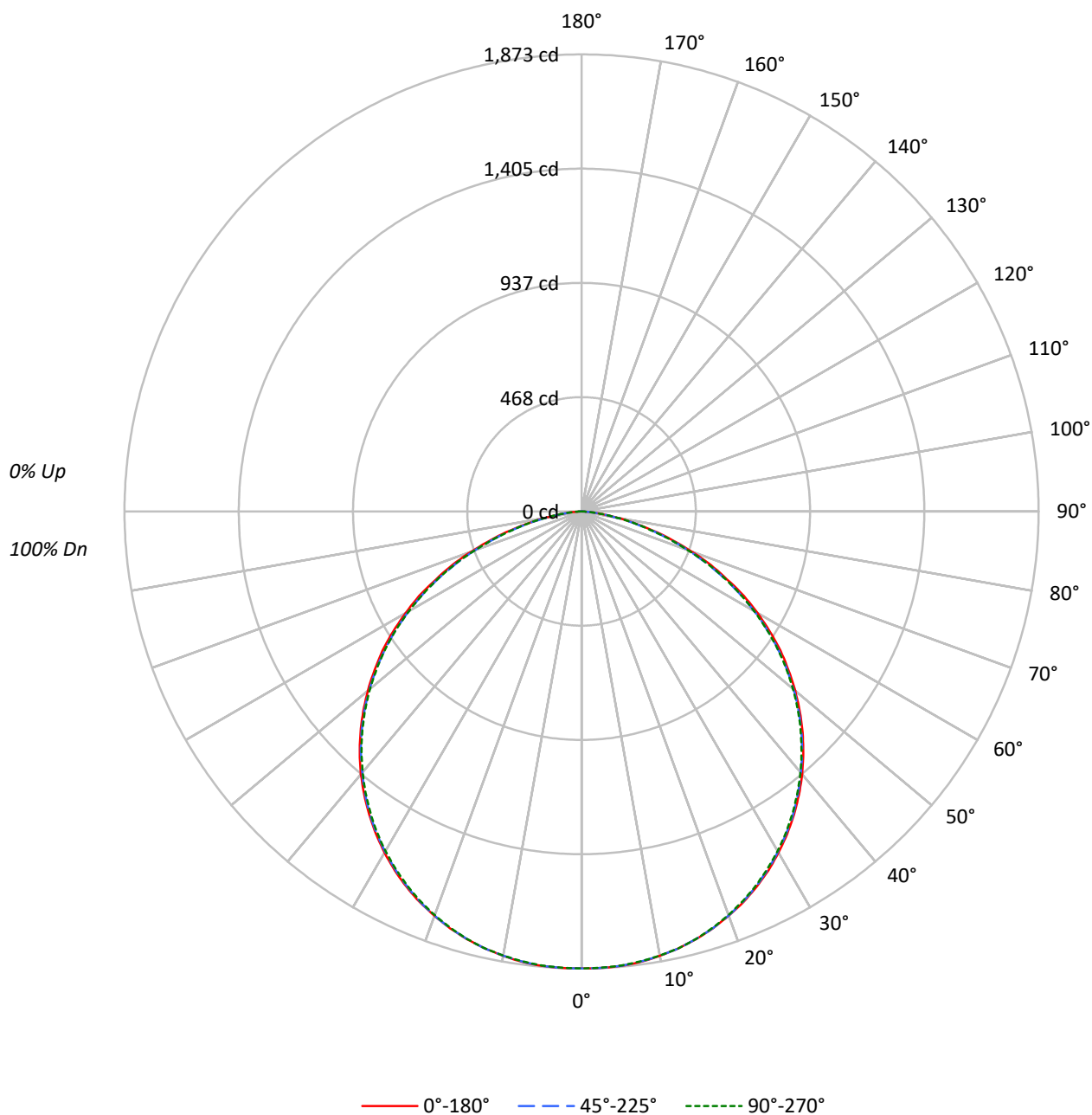
Lumens per Lamp: N/A
Luminaire Lumens: 5293.3 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2520	2520	2520
5°	2525	2525	2523
10°	2527	2526	2525
15°	2527	2526	2526
20°	2525	2524	2520
25°	2520	2515	2511
30°	2509	2502	2496
35°	2492	2486	2477
40°	2470	2455	2452
45°	2438	2424	2417
50°	2393	2374	2367
55°	2336	2303	2300
60°	2239	2199	2199
65°	2095	2045	2052
70°	1885	1827	1821
75°	1582	1520	1513
80°	1156	1099	1145
85°	653	602	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2438 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	3.4
10°-20°	512.1	9.7
20°-30°	780.8	14.8
30°-40°	946.1	17.9
40°-50°	982.7	18.6
50°-60°	879.1	16.6
60°-70°	640.7	12.1
70°-80°	317.3	6.0
80°-90°	56.7	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°	1470.8	27.8
0°-40°	2416.8	45.7
0°-60°	4278.6	80.8
0°-90°	5293.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5293.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1870	1870	1870	1870	1868	178
15°	1814	1814	1814	1815	1814	512
25°	1698	1696	1694	1694	1691	782
35°	1517	1515	1513	1511	1508	949
45°	1282	1279	1274	1271	1270	988
55°	996	988	982	982	980	887
65°	658	652	642	645	644	652
75°	304	300	292	298	291	325
85°	42	39	39	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.9	1872.9	1872.9	1872.9	1872.9
2.5°	1872.9	1872.2	1872.2	1872.9	1871.5
5°	1869.5	1870.2	1869.5	1869.5	1868.2
7.5°	1862.1	1861.5	1860.8	1861.5	1859.4
10°	1849.4	1849.4	1848.7	1849.4	1848.0
12.5°	1833.9	1833.9	1833.9	1834.6	1833.9
15°	1814.4	1813.7	1813.7	1815.1	1813.7
17.5°	1791.6	1790.9	1790.9	1790.2	1788.9
20°	1763.3	1763.3	1762.7	1762.0	1760.0
22.5°	1733.1	1732.4	1730.4	1730.4	1727.7
25°	1697.5	1695.5	1694.1	1693.5	1691.4
27.5°	1658.5	1655.8	1653.8	1652.5	1650.4
30°	1614.8	1612.1	1610.1	1608.1	1606.8
32.5°	1567.8	1566.4	1563.1	1562.4	1559.7
35°	1517.4	1515.4	1513.4	1510.7	1508.0
37.5°	1463.6	1461.6	1456.9	1455.6	1453.6
40°	1406.5	1403.8	1397.8	1397.8	1395.8
42.5°	1345.4	1342.7	1338.6	1335.9	1334.6
45°	1281.5	1278.8	1274.1	1271.4	1270.1
47.5°	1213.6	1211.6	1206.3	1204.2	1202.2
50°	1143.1	1140.4	1134.3	1133.0	1131.0
52.5°	1069.2	1067.8	1059.8	1059.1	1057.1
55°	995.9	988.5	981.8	981.8	980.5
57.5°	915.3	909.9	901.2	901.2	899.8
60°	831.9	827.2	817.2	818.5	817.2
62.5°	750.6	740.6	731.1	735.2	731.8
65°	657.9	652.5	642.4	645.1	644.5
67.5°	573.2	563.1	553.7	559.1	556.4
70°	479.1	473.8	464.4	469.7	463.0
72.5°	390.4	385.7	376.3	382.4	375.7
75°	304.4	299.7	292.3	297.7	291.0
77.5°	223.1	219.7	213.0	218.4	219.7
80°	149.2	145.2	141.8	146.5	147.8
82.5°	87.4	84.7	83.3	84.0	87.4
85°	42.3	39.0	39.0	39.6	39.6
87.5°	11.4	10.1	11.4	12.1	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)