

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: P974686

Luminaire Tested: FLR2-24-55HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974686
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

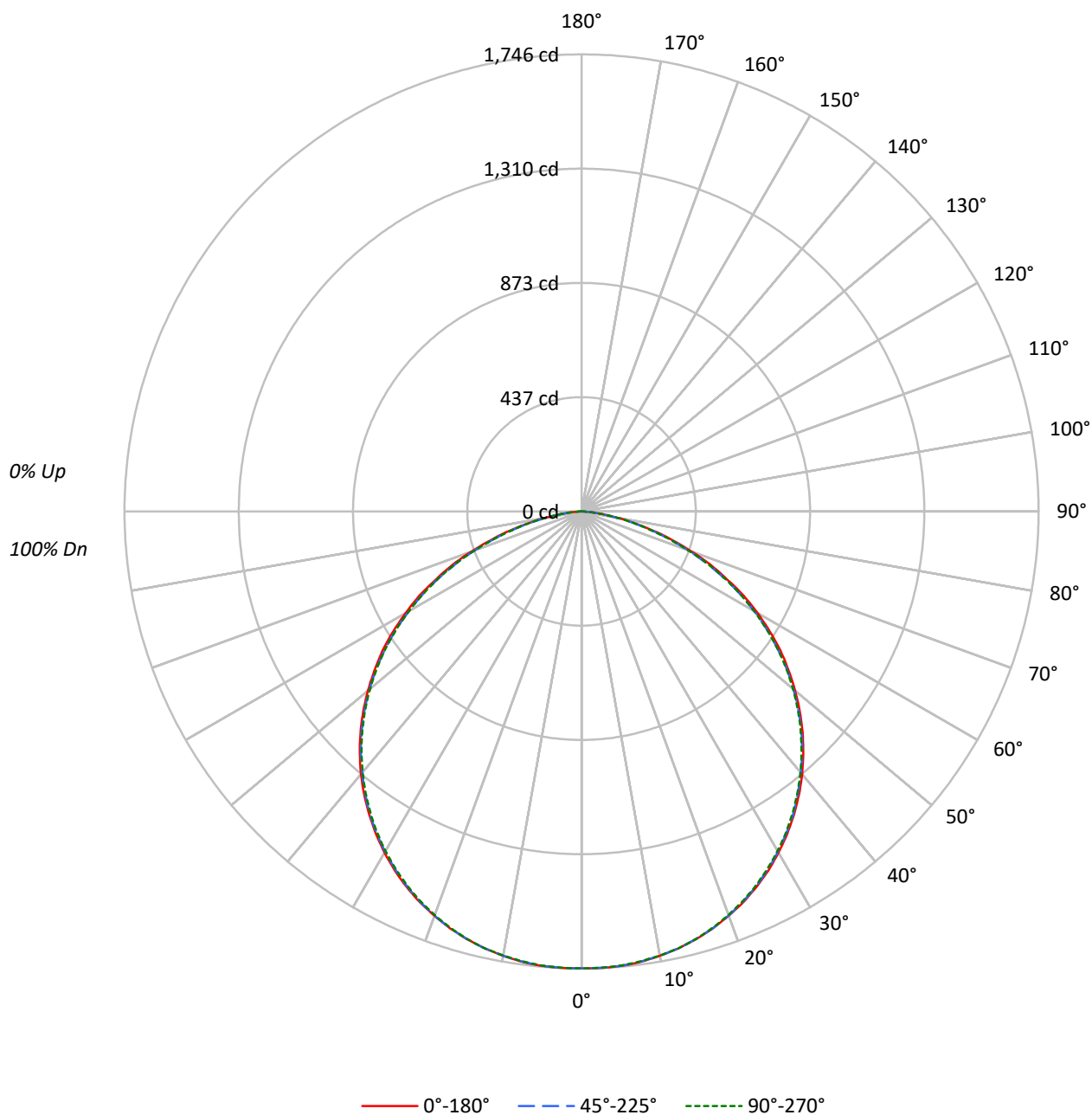
Lumens per Lamp: N/A
Luminaire Lumens: 4934.2 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2349	2349	2349
5°	2354	2354	2352
10°	2355	2354	2353
15°	2356	2355	2355
20°	2354	2353	2349
25°	2349	2344	2341
30°	2339	2332	2327
35°	2323	2317	2309
40°	2303	2288	2285
45°	2273	2260	2253
50°	2230	2213	2207
55°	2178	2147	2144
60°	2087	2050	2050
65°	1953	1906	1912
70°	1757	1703	1698
75°	1475	1417	1410
80°	1078	1024	1068
85°	610	560	571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.4
10°-20°	477.4	9.7
20°-30°	727.9	14.8
30°-40°	881.9	17.9
40°-50°	916.0	18.6
50°-60°	819.4	16.6
60°-70°	597.2	12.1
70°-80°	295.8	6.0
80°-90°	52.9	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°	1371.0	27.8
0°-40°	2252.8	45.7
0°-60°	3988.3	80.8
0°-90°	4934.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4934.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1743	1743	1743	1743	1741	166
15°	1691	1691	1691	1692	1691	478
25°	1582	1580	1579	1579	1577	729
35°	1414	1413	1411	1408	1406	885
45°	1195	1192	1188	1185	1184	921
55°	928	921	915	915	914	827
65°	613	608	599	601	601	608
75°	284	279	272	278	271	303
85°	40	36	36	37	37	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1745.8	1745.2	1745.2	1745.8	1744.6
5°	1742.7	1743.3	1742.7	1742.7	1741.4
7.5°	1735.8	1735.2	1734.5	1735.2	1733.3
10°	1723.9	1723.9	1723.3	1723.9	1722.6
12.5°	1709.5	1709.5	1709.5	1710.1	1709.5
15°	1691.3	1690.7	1690.7	1691.9	1690.7
17.5°	1670.0	1669.4	1669.4	1668.8	1667.5
20°	1643.7	1643.7	1643.1	1642.4	1640.6
22.5°	1615.5	1614.9	1613.0	1613.0	1610.5
25°	1582.3	1580.4	1579.2	1578.6	1576.7
27.5°	1546.0	1543.5	1541.6	1540.3	1538.5
30°	1505.3	1502.8	1500.9	1499.0	1497.7
32.5°	1461.4	1460.2	1457.0	1456.4	1453.9
35°	1414.4	1412.6	1410.7	1408.2	1405.7
37.5°	1364.3	1362.4	1358.1	1356.8	1354.9
40°	1311.1	1308.6	1302.9	1302.9	1301.1
42.5°	1254.1	1251.6	1247.8	1245.3	1244.1
45°	1194.6	1192.1	1187.7	1185.2	1183.9
47.5°	1131.3	1129.4	1124.4	1122.5	1120.6
50°	1065.5	1063.0	1057.4	1056.1	1054.2
52.5°	996.6	995.4	987.8	987.2	985.3
55°	928.3	921.4	915.2	915.2	913.9
57.5°	853.2	848.2	840.0	840.0	838.8
60°	775.5	771.1	761.7	763.0	761.7
62.5°	699.7	690.3	681.5	685.3	682.2
65°	613.3	608.2	598.8	601.4	600.7
67.5°	534.3	524.9	516.2	521.2	518.7
70°	446.6	441.6	432.8	437.9	431.6
72.5°	363.9	359.6	350.8	356.4	350.2
75°	283.8	279.4	272.5	277.5	271.2
77.5°	208.0	204.8	198.6	203.6	204.8
80°	139.1	135.3	132.2	136.6	137.8
82.5°	81.4	78.9	77.7	78.3	81.4
85°	39.5	36.3	36.3	37.0	37.0
87.5°	10.6	9.4	10.6	11.3	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)