

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: P974697

Luminaire Tested: FLR2-24-55HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974697
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

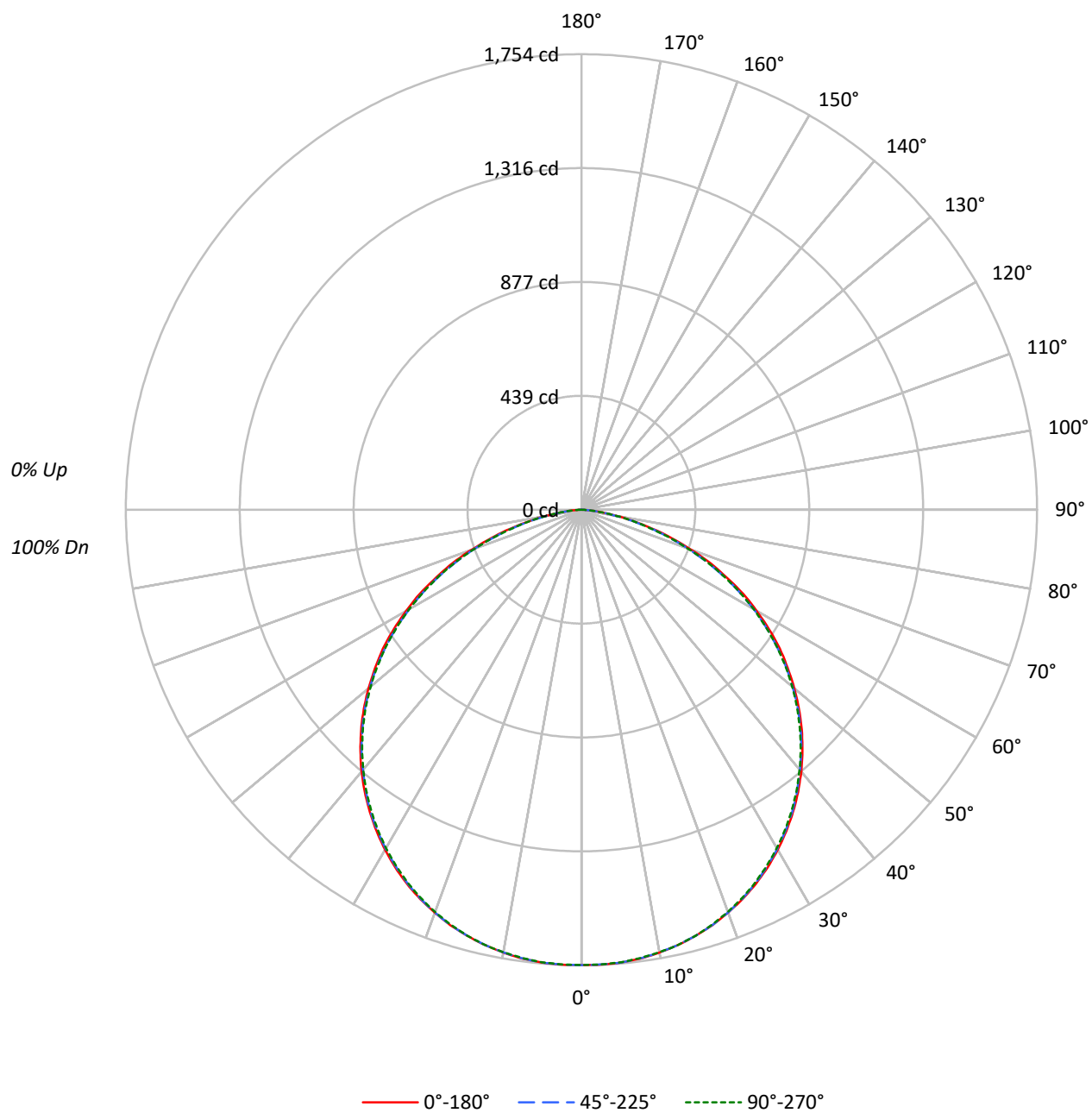
Lumens per Lamp: N/A
Luminaire Lumens: 4956.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P974697

CATALOG NUMBER: FLR2-24-55HE-L835-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P974697

CATALOG NUMBER: FLR2-24-55HE-L835-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°	2359	2359	2359
5°	2364	2364	2362
10°	2366	2365	2364
15°	2366	2366	2366
20°	2364	2363	2359
25°	2359	2355	2351
30°	2349	2342	2337
35°	2334	2327	2319
40°	2313	2299	2295
45°	2283	2270	2263
50°	2240	2223	2216
55°	2187	2156	2153
60°	2096	2059	2059
65°	1961	1915	1921
70°	1765	1710	1705
75°	1482	1423	1416
80°	1082	1029	1072
85°	611	563	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2283 cd/sqm

TEST NUMBER: P974697

CATALOG NUMBER: FLR2-24-55HE-L835-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.4
10°-20°	479.5	9.7
20°-30°	731.1	14.8
30°-40°	885.8	17.9
40°-50°	920.1	18.6
50°-60°	823.1	16.6
60°-70°	599.9	12.1
70°-80°	297.1	6.0
80°-90°	53.1	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°	1377.0	27.8
0°-40°	2262.8	45.7
0°-60°	4006.0	80.8
0°-90°	4956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1750	1751	1750	1750	1749	166
15°	1699	1698	1698	1699	1698	480
25°	1589	1587	1586	1586	1584	732
35°	1421	1419	1417	1414	1412	889
45°	1200	1197	1193	1190	1189	925
55°	932	926	919	919	918	831
65°	616	611	602	604	603	611
75°	285	281	274	279	272	304
85°	40	36	36	37	37	55
90°	0	0	0	0	0	

TEST NUMBER: P974697

CATALOG NUMBER: FLR2-24-55HE-L835-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.5	1753.5	1753.5	1753.5	1753.5
2.5°	1753.5	1752.9	1752.9	1753.5	1752.3
5°	1750.4	1751.0	1750.4	1750.4	1749.1
7.5°	1743.5	1742.8	1742.2	1742.8	1741.0
10°	1731.5	1731.5	1730.9	1731.5	1730.3
12.5°	1717.0	1717.0	1717.0	1717.7	1717.0
15°	1698.8	1698.2	1698.2	1699.4	1698.2
17.5°	1677.4	1676.8	1676.8	1676.1	1674.9
20°	1651.0	1651.0	1650.4	1649.7	1647.8
22.5°	1622.7	1622.0	1620.2	1620.2	1617.6
25°	1589.3	1587.4	1586.2	1585.5	1583.7
27.5°	1552.8	1550.3	1548.4	1547.2	1545.3
30°	1511.9	1509.4	1507.5	1505.6	1504.4
32.5°	1467.9	1466.6	1463.5	1462.9	1460.3
35°	1420.7	1418.8	1416.9	1414.4	1411.9
37.5°	1370.4	1368.5	1364.1	1362.8	1360.9
40°	1316.9	1314.4	1308.7	1308.7	1306.8
42.5°	1259.6	1257.1	1253.3	1250.8	1249.6
45°	1199.9	1197.3	1192.9	1190.4	1189.2
47.5°	1136.3	1134.4	1129.4	1127.5	1125.6
50°	1070.2	1067.7	1062.1	1060.8	1058.9
52.5°	1001.0	999.8	992.2	991.6	989.7
55°	932.5	925.5	919.2	919.2	918.0
57.5°	856.9	851.9	843.7	843.7	842.5
60°	778.9	774.5	765.1	766.3	765.1
62.5°	702.8	693.4	684.6	688.3	685.2
65°	616.0	610.9	601.5	604.0	603.4
67.5°	536.7	527.3	518.4	523.5	521.0
70°	448.6	443.6	434.8	439.8	433.5
72.5°	365.6	361.2	352.3	358.0	351.7
75°	285.0	280.6	273.7	278.7	272.4
77.5°	208.9	205.7	199.5	204.5	205.7
80°	139.7	135.9	132.8	137.2	138.4
82.5°	81.8	79.3	78.0	78.6	81.8
85°	39.6	36.5	36.5	37.1	37.1
87.5°	10.7	9.4	10.7	11.3	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)