

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: P974206

Luminaire Tested: FLR2-24-55-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974206
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: FLR2-24-55-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L835-CP375
Ballast/Driver: -

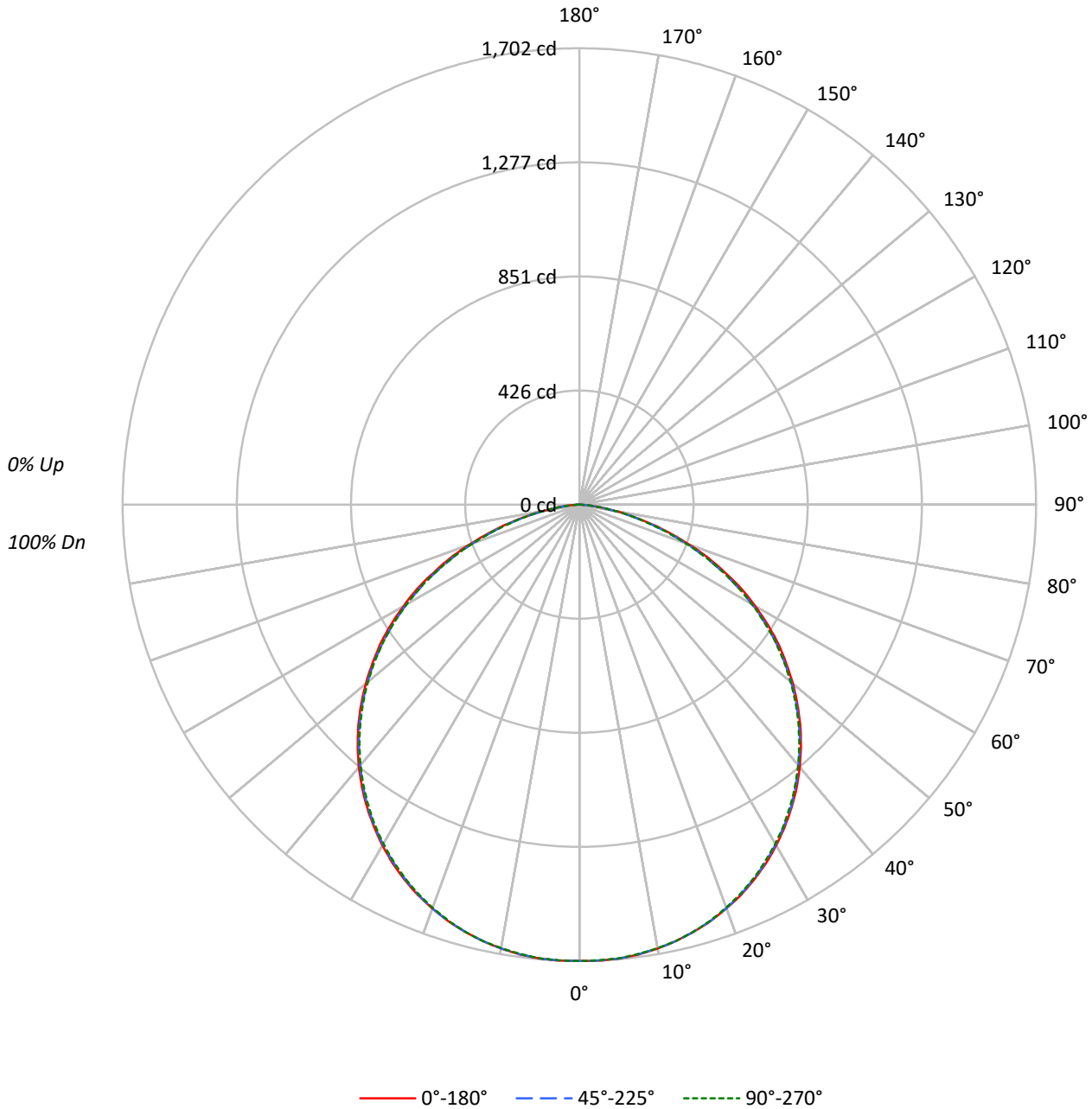
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.3 lumens
Efficiency: N/A
Efficacy: 109.1 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): 44.1
Input Voltage (V): 120
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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2290	2290	2290
5°	2295	2295	2294
10°	2297	2296	2295
15°	2297	2296	2296
20°	2295	2294	2291
25°	2291	2286	2282
30°	2280	2274	2269
35°	2265	2259	2251
40°	2245	2232	2228
45°	2216	2204	2197
50°	2175	2158	2152
55°	2123	2093	2091
60°	2035	1999	1999
65°	1904	1859	1865
70°	1713	1661	1655
75°	1438	1381	1375
80°	1051	999	1041
85°	594	546	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2216 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	3.4
10°-20°	465.5	9.7
20°-30°	709.7	14.8
30°-40°	859.9	17.9
40°-50°	893.2	18.6
50°-60°	799.0	16.6
60°-70°	582.4	12.1
70°-80°	288.4	6.0
80°-90°	51.6	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°	1336.8	27.8
0°-40°	2196.7	45.7
0°-60°	3889.0	80.8
0°-90°	4811.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1699	1700	1699	1699	1698	162
15°	1649	1649	1649	1650	1649	466
25°	1543	1541	1540	1539	1537	711
35°	1379	1377	1376	1373	1371	863
45°	1165	1162	1158	1156	1154	898
55°	905	898	892	892	891	806
65°	598	593	584	586	586	593
75°	277	272	266	271	264	295
85°	38	35	35	36	36	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1702.3	1701.7	1701.7	1702.3	1701.1
5°	1699.3	1699.9	1699.3	1699.3	1698.1
7.5°	1692.6	1691.9	1691.3	1691.9	1690.1
10°	1681.0	1681.0	1680.3	1681.0	1679.7
12.5°	1666.9	1666.9	1666.9	1667.5	1666.9
15°	1649.2	1648.6	1648.6	1649.8	1648.6
17.5°	1628.4	1627.8	1627.8	1627.2	1626.0
20°	1602.8	1602.8	1602.2	1601.5	1599.7
22.5°	1575.3	1574.7	1572.8	1572.8	1570.4
25°	1542.9	1541.1	1539.9	1539.2	1537.4
27.5°	1507.5	1505.0	1503.2	1502.0	1500.2
30°	1467.8	1465.3	1463.5	1461.7	1460.4
32.5°	1425.0	1423.8	1420.7	1420.1	1417.7
35°	1379.2	1377.4	1375.5	1373.1	1370.7
37.5°	1330.3	1328.5	1324.2	1323.0	1321.2
40°	1278.4	1276.0	1270.5	1270.5	1268.7
42.5°	1222.8	1220.4	1216.7	1214.3	1213.1
45°	1164.8	1162.4	1158.1	1155.7	1154.4
47.5°	1103.1	1101.3	1096.4	1094.6	1092.7
50°	1039.0	1036.5	1031.0	1029.8	1028.0
52.5°	971.8	970.6	963.2	962.6	960.8
55°	905.2	898.5	892.4	892.4	891.2
57.5°	831.9	827.0	819.1	819.1	817.9
60°	756.2	751.9	742.7	744.0	742.7
62.5°	682.3	673.1	664.6	668.2	665.2
65°	598.0	593.1	583.9	586.4	585.8
67.5°	521.0	511.9	503.3	508.2	505.8
70°	435.5	430.6	422.1	427.0	420.8
72.5°	354.9	350.6	342.1	347.6	341.4
75°	276.7	272.4	265.7	270.6	264.5
77.5°	202.8	199.7	193.6	198.5	199.7
80°	135.6	131.9	128.9	133.2	134.4
82.5°	79.4	77.0	75.7	76.4	79.4
85°	38.5	35.4	35.4	36.0	36.0
87.5°	10.4	9.2	10.4	11.0	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)