

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: P974318

Luminaire Tested: FLR2-24-55-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974318
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L840-CP375
Ballast/Driver: -

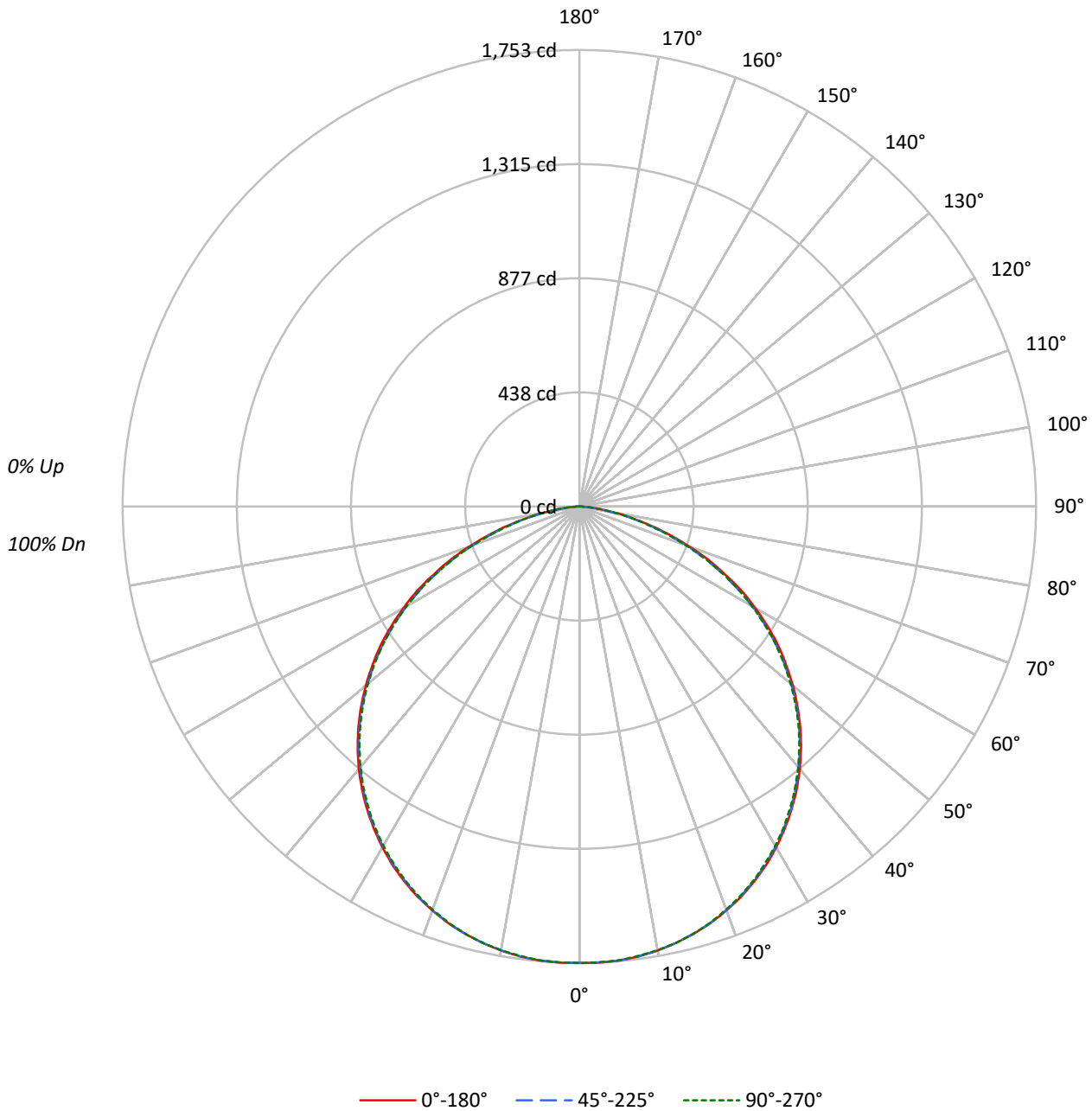
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4955.6 lumens
Efficiency: N/A
Efficacy: 112.4 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										
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	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					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	2365	2365
20°	2364	2363	2359
25°	2359	2355	2351
30°	2349	2342	2337
35°	2333	2327	2319
40°	2313	2298	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	1028	1072
85°	611	563	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.4
10°-20°	479.5	9.7
20°-30°	731.0	14.8
30°-40°	885.7	17.9
40°-50°	920.0	18.6
50°-60°	823.0	16.6
60°-70°	599.8	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°	1376.9	27.8
0°-40°	2262.6	45.7
0°-60°	4005.7	80.8
0°-90°	4955.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1750	1751	1750	1750	1749	166
15°	1699	1698	1698	1699	1698	480
25°	1589	1587	1586	1585	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1753.4	1752.8	1752.8	1753.4	1752.1
5°	1750.3	1750.9	1750.3	1750.3	1749.0
7.5°	1743.3	1742.7	1742.1	1742.7	1740.8
10°	1731.4	1731.4	1730.8	1731.4	1730.1
12.5°	1716.9	1716.9	1716.9	1717.5	1716.9
15°	1698.7	1698.0	1698.0	1699.3	1698.0
17.5°	1677.3	1676.6	1676.6	1676.0	1674.8
20°	1650.9	1650.9	1650.2	1649.6	1647.7
22.5°	1622.5	1621.9	1620.0	1620.0	1617.5
25°	1589.2	1587.3	1586.1	1585.4	1583.5
27.5°	1552.7	1550.2	1548.3	1547.0	1545.2
30°	1511.8	1509.3	1507.4	1505.5	1504.3
32.5°	1467.8	1466.5	1463.4	1462.7	1460.2
35°	1420.6	1418.7	1416.8	1414.3	1411.8
37.5°	1370.3	1368.4	1364.0	1362.7	1360.8
40°	1316.8	1314.3	1308.6	1308.6	1306.7
42.5°	1259.5	1257.0	1253.2	1250.7	1249.5
45°	1199.8	1197.2	1192.8	1190.3	1189.1
47.5°	1136.2	1134.3	1129.3	1127.4	1125.5
50°	1070.2	1067.6	1062.0	1060.7	1058.8
52.5°	1001.0	999.7	992.1	991.5	989.6
55°	932.4	925.5	919.2	919.2	917.9
57.5°	856.9	851.8	843.7	843.7	842.4
60°	778.9	774.5	765.0	766.3	765.0
62.5°	702.7	693.3	684.5	688.3	685.1
65°	615.9	610.9	601.5	604.0	603.3
67.5°	536.7	527.2	518.4	523.4	520.9
70°	448.6	443.5	434.7	439.8	433.5
72.5°	365.5	361.1	352.3	358.0	351.7
75°	285.0	280.6	273.7	278.7	272.4
77.5°	208.9	205.7	199.4	204.5	205.7
80°	139.7	135.9	132.7	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)