

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: P974286

Luminaire Tested: FLR2-24-55-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974286
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L840-CP080
Ballast/Driver: -

Summary

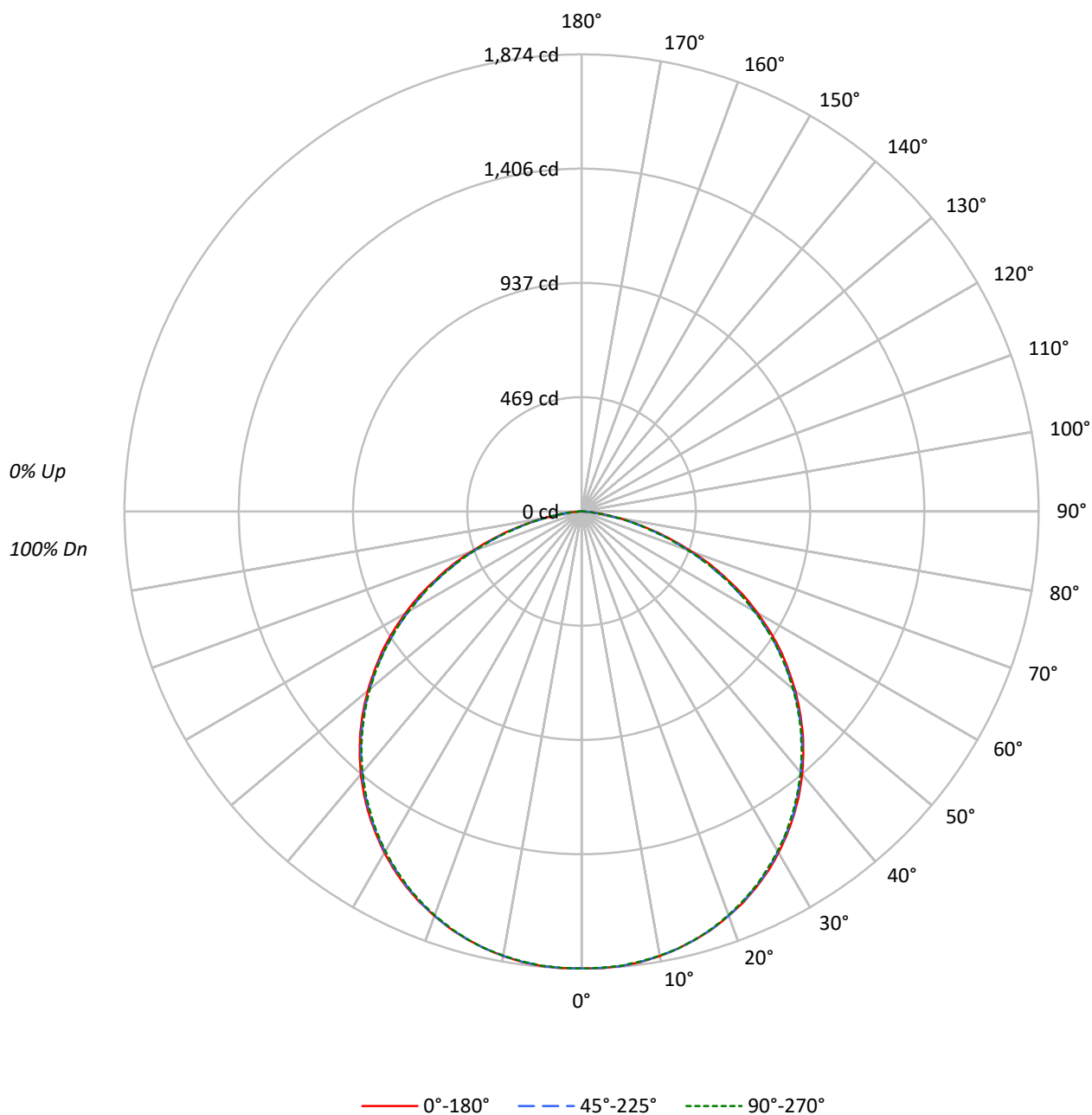
Lumens per Lamp: N/A
Luminaire Lumens: 5297.4 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	2522	2522	2522
5°	2527	2527	2525
10°	2529	2528	2527
15°	2529	2528	2528
20°	2527	2526	2522
25°	2522	2517	2513
30°	2511	2504	2498
35°	2494	2488	2479
40°	2472	2457	2453
45°	2440	2426	2419
50°	2395	2376	2369
55°	2338	2305	2302
60°	2241	2201	2201
65°	2096	2047	2053
70°	1886	1828	1823
75°	1584	1521	1514
80°	1157	1099	1147
85°	655	602	613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.4
10°-20°	512.5	9.7
20°-30°	781.5	14.8
30°-40°	946.8	17.9
40°-50°	983.5	18.6
50°-60°	879.8	16.6
60°-70°	641.2	12.1
70°-80°	317.5	6.0
80°-90°	56.8	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°	1471.9	27.8
0°-40°	2418.7	45.7
0°-60°	4281.9	80.8
0°-90°	5297.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5297.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1871	1872	1871	1871	1870	178
15°	1816	1815	1815	1816	1815	513
25°	1699	1697	1695	1695	1693	783
35°	1519	1516	1514	1512	1509	950
45°	1282	1280	1275	1272	1271	988
55°	997	989	983	983	981	888
65°	658	653	643	646	645	653
75°	305	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°	1874.3	1874.3	1874.3	1874.3	1874.3
2.5°	1874.3	1873.7	1873.7	1874.3	1873.0
5°	1871.0	1871.6	1871.0	1871.0	1869.6
7.5°	1863.6	1862.9	1862.2	1862.9	1860.9
10°	1850.8	1850.8	1850.1	1850.8	1849.4
12.5°	1835.3	1835.3	1835.3	1836.0	1835.3
15°	1815.8	1815.1	1815.1	1816.5	1815.1
17.5°	1793.0	1792.3	1792.3	1791.6	1790.3
20°	1764.7	1764.7	1764.0	1763.4	1761.3
22.5°	1734.4	1733.8	1731.8	1731.8	1729.1
25°	1698.8	1696.8	1695.4	1694.8	1692.7
27.5°	1659.8	1657.1	1655.1	1653.7	1651.7
30°	1616.1	1613.4	1611.4	1609.4	1608.0
32.5°	1569.0	1567.7	1564.3	1563.6	1560.9
35°	1518.6	1516.5	1514.5	1511.8	1509.1
37.5°	1464.8	1462.7	1458.0	1456.7	1454.7
40°	1407.6	1404.9	1398.9	1398.9	1396.8
42.5°	1346.4	1343.7	1339.7	1337.0	1335.6
45°	1282.5	1279.8	1275.1	1272.4	1271.1
47.5°	1214.6	1212.6	1207.2	1205.2	1203.1
50°	1144.0	1141.3	1135.2	1133.9	1131.9
52.5°	1070.0	1068.6	1060.6	1059.9	1057.9
55°	996.7	989.3	982.6	982.6	981.2
57.5°	916.0	910.6	901.9	901.9	900.5
60°	832.6	827.9	817.8	819.1	817.8
62.5°	751.2	741.1	731.7	735.7	732.4
65°	658.4	653.0	642.9	645.6	645.0
67.5°	573.7	563.6	554.2	559.5	556.9
70°	479.5	474.1	464.7	470.1	463.4
72.5°	390.7	386.0	376.6	382.7	375.9
75°	304.7	299.9	292.5	297.9	291.2
77.5°	223.3	219.9	213.2	218.6	219.9
80°	149.3	145.3	141.9	146.6	148.0
82.5°	87.4	84.7	83.4	84.1	87.4
85°	42.4	39.0	39.0	39.7	39.7
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)