

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: P974119

Luminaire Tested: FLR2-24-65-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974119
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: FLR2-24-65-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L930-CP080
Ballast/Driver: -

Summary

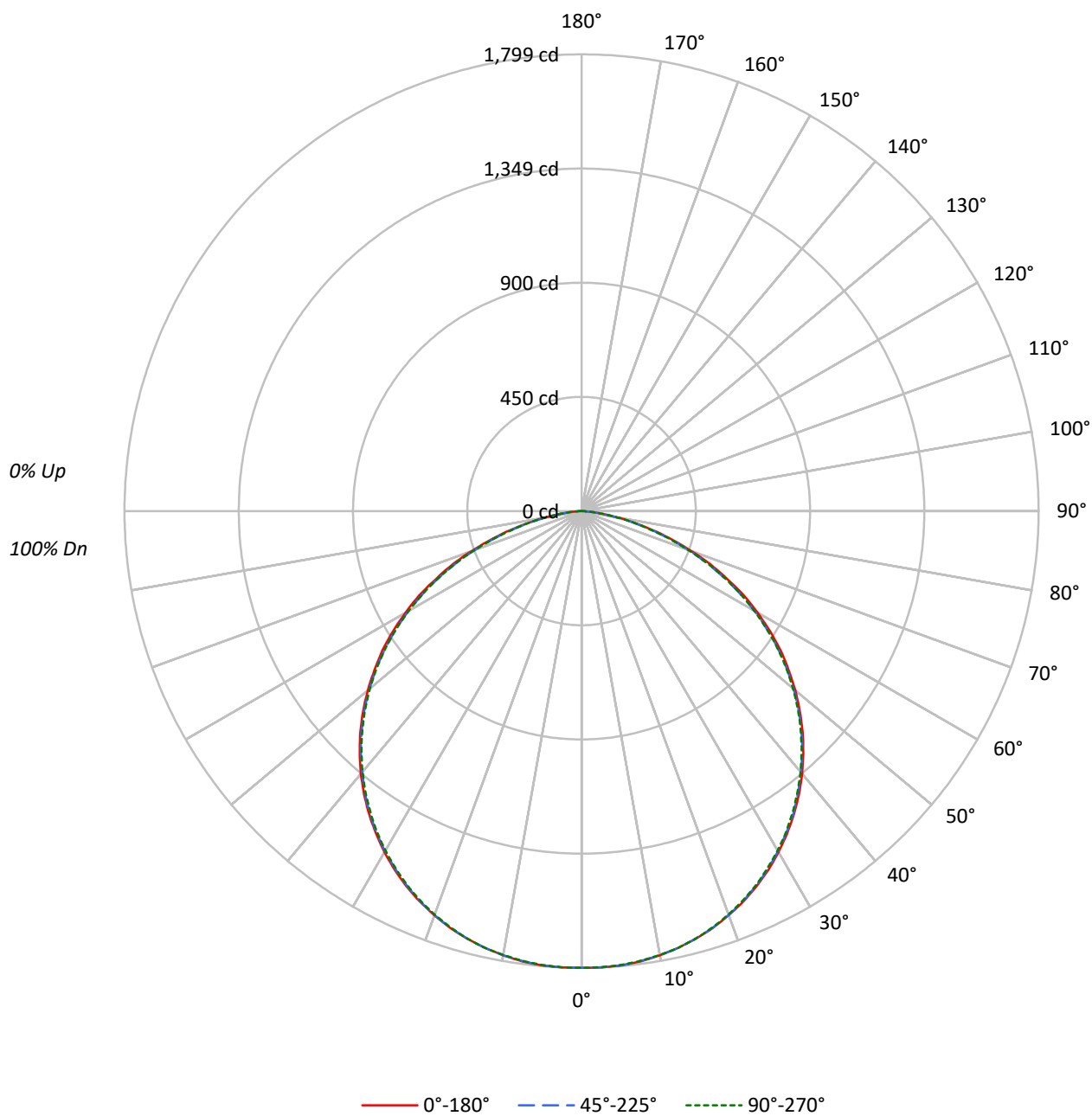
Lumens per Lamp: N/A
Luminaire Lumens: 5085.1 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	2421	2421	2421
5°	2426	2426	2424
10°	2427	2426	2425
15°	2428	2427	2427
20°	2426	2425	2421
25°	2421	2416	2412
30°	2410	2403	2398
35°	2394	2388	2380
40°	2373	2359	2355
45°	2343	2329	2322
50°	2299	2281	2274
55°	2244	2213	2209
60°	2151	2112	2112
65°	2012	1965	1971
70°	1811	1755	1750
75°	1520	1460	1453
80°	1110	1055	1100
85°	628	577	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	3.4
10°-20°	492.0	9.7
20°-30°	750.1	14.8
30°-40°	908.8	17.9
40°-50°	944.0	18.6
50°-60°	844.5	16.6
60°-70°	615.5	12.1
70°-80°	304.8	6.0
80°-90°	54.5	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°	1412.9	27.8
0°-40°	2321.8	45.7
0°-60°	4110.3	80.8
0°-90°	5085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1796	1797	1796	1796	1795	171
15°	1743	1742	1742	1744	1742	492
25°	1631	1629	1628	1627	1625	752
35°	1458	1456	1454	1451	1449	912
45°	1231	1228	1224	1221	1220	949
55°	957	950	943	943	942	852
65°	632	627	617	620	619	627
75°	292	288	281	286	280	312
85°	41	37	37	38	38	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.2	1799.2	1799.2	1799.2	1799.2
2.5°	1799.2	1798.6	1798.6	1799.2	1797.9
5°	1796.0	1796.6	1796.0	1796.0	1794.7
7.5°	1788.9	1788.3	1787.6	1788.3	1786.3
10°	1776.6	1776.6	1776.0	1776.6	1775.3
12.5°	1761.8	1761.8	1761.8	1762.4	1761.8
15°	1743.1	1742.4	1742.4	1743.7	1742.4
17.5°	1721.1	1720.5	1720.5	1719.8	1718.5
20°	1694.0	1694.0	1693.4	1692.7	1690.8
22.5°	1664.9	1664.3	1662.4	1662.4	1659.8
25°	1630.7	1628.8	1627.5	1626.9	1624.9
27.5°	1593.3	1590.7	1588.8	1587.5	1585.5
30°	1551.3	1548.7	1546.8	1544.9	1543.6
32.5°	1506.1	1504.8	1501.6	1501.0	1498.4
35°	1457.7	1455.8	1453.8	1451.3	1448.7
37.5°	1406.1	1404.1	1399.6	1398.3	1396.4
40°	1351.2	1348.6	1342.8	1342.8	1340.9
42.5°	1292.4	1289.9	1286.0	1283.4	1282.1
45°	1231.1	1228.5	1224.0	1221.4	1220.1
47.5°	1165.9	1164.0	1158.8	1156.9	1154.9
50°	1098.1	1095.5	1089.7	1088.4	1086.5
52.5°	1027.1	1025.8	1018.1	1017.4	1015.5
55°	956.7	949.6	943.2	943.2	941.9
57.5°	879.3	874.1	865.7	865.7	864.4
60°	799.2	794.7	785.0	786.3	785.0
62.5°	721.1	711.4	702.4	706.3	703.0
65°	632.0	626.9	617.2	619.8	619.1
67.5°	550.7	541.0	532.0	537.1	534.5
70°	460.3	455.1	446.1	451.3	444.8
72.5°	375.1	370.6	361.5	367.3	360.9
75°	292.4	287.9	280.8	286.0	279.5
77.5°	214.3	211.1	204.6	209.8	211.1
80°	143.3	139.4	136.2	140.7	142.0
82.5°	83.9	81.3	80.1	80.7	83.9
85°	40.7	37.4	37.4	38.1	38.1
87.5°	11.0	9.7	11.0	11.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)