

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: P974495

Luminaire Tested: FLR2-24-65-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974495
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-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L950-CA080
Ballast/Driver: -

Summary

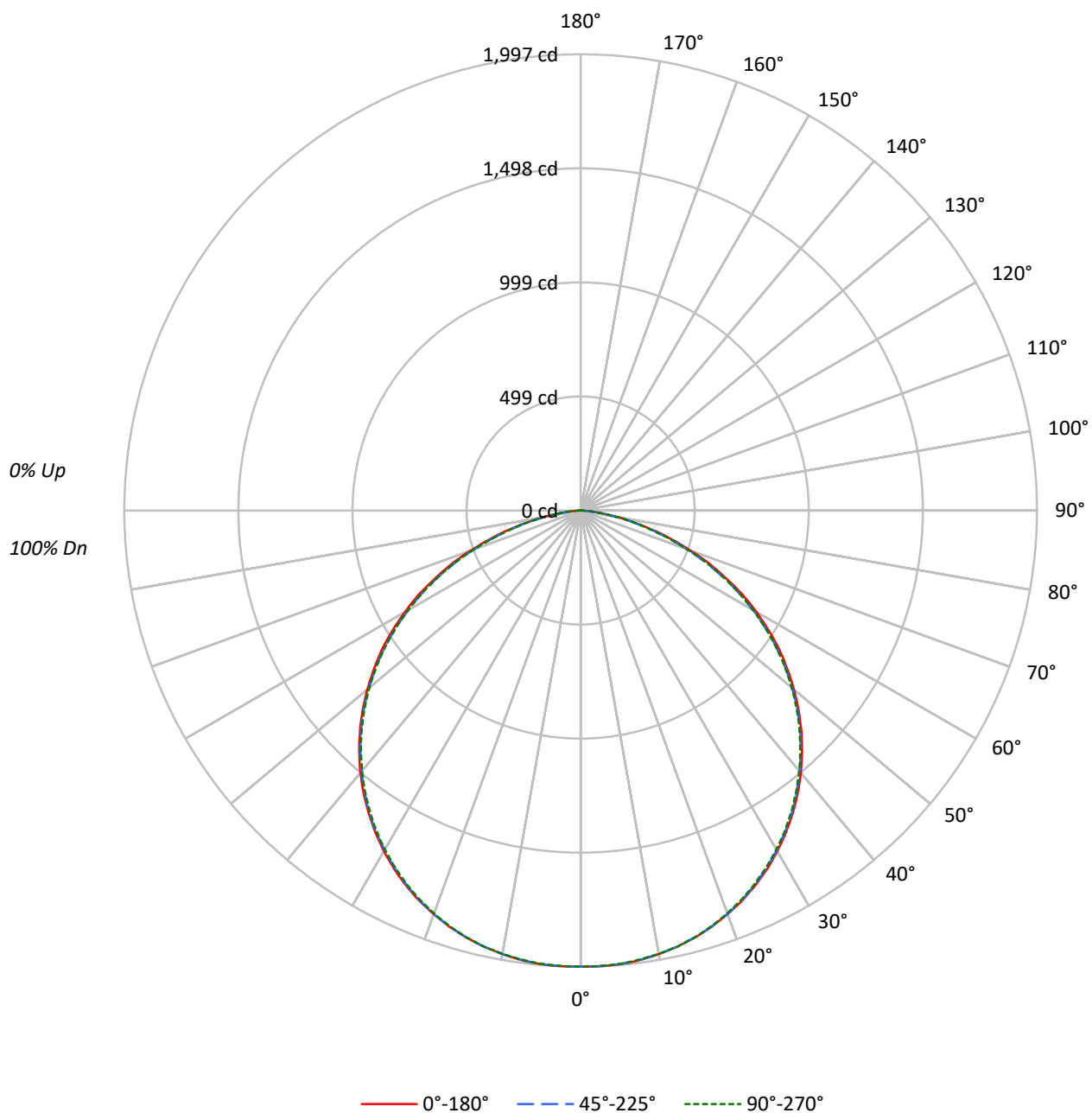
Lumens per Lamp: N/A
Luminaire Lumens: 5643.5 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2687	2687	2687
5°	2692	2692	2690
10°	2694	2693	2692
15°	2695	2694	2694
20°	2692	2691	2687
25°	2687	2681	2677
30°	2675	2667	2662
35°	2657	2650	2641
40°	2634	2617	2614
45°	2600	2585	2577
50°	2551	2532	2524
55°	2491	2456	2452
60°	2387	2344	2344
65°	2233	2181	2188
70°	2009	1948	1942
75°	1687	1620	1613
80°	1233	1172	1221
85°	696	642	653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	3.4
10°-20°	546.0	9.7
20°-30°	832.5	14.8
30°-40°	1008.6	17.9
40°-50°	1047.7	18.6
50°-60°	937.3	16.6
60°-70°	683.1	12.1
70°-80°	338.3	6.0
80°-90°	60.5	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°	1568.1	27.8
0°-40°	2576.7	45.7
0°-60°	4561.7	80.8
0°-90°	5643.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5643.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1993	1994	1993	1993	1992	190
15°	1934	1934	1934	1935	1934	546
25°	1810	1808	1806	1806	1803	834
35°	1618	1616	1614	1611	1608	1012
45°	1366	1363	1358	1356	1354	1053
55°	1062	1054	1047	1047	1045	946
65°	701	696	685	688	687	695
75°	325	320	312	317	310	346
85°	45	42	42	42	42	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.8	1996.8	1996.8	1996.8	1996.8
2.5°	1996.8	1996.1	1996.1	1996.8	1995.4
5°	1993.2	1993.9	1993.2	1993.2	1991.8
7.5°	1985.3	1984.6	1983.9	1984.6	1982.5
10°	1971.7	1971.7	1971.0	1971.7	1970.3
12.5°	1955.2	1955.2	1955.2	1955.9	1955.2
15°	1934.5	1933.7	1933.7	1935.2	1933.7
17.5°	1910.1	1909.4	1909.4	1908.7	1907.2
20°	1880.0	1880.0	1879.3	1878.6	1876.4
22.5°	1847.8	1847.0	1844.9	1844.9	1842.0
25°	1809.8	1807.6	1806.2	1805.5	1803.3
27.5°	1768.2	1765.4	1763.2	1761.8	1759.6
30°	1721.7	1718.8	1716.6	1714.5	1713.1
32.5°	1671.5	1670.1	1666.5	1665.8	1662.9
35°	1617.8	1615.6	1613.5	1610.6	1607.7
37.5°	1560.5	1558.3	1553.3	1551.9	1549.7
40°	1499.6	1496.7	1490.2	1490.2	1488.1
42.5°	1434.4	1431.5	1427.2	1424.3	1422.9
45°	1366.3	1363.4	1358.4	1355.5	1354.1
47.5°	1293.9	1291.8	1286.1	1283.9	1281.8
50°	1218.7	1215.8	1209.4	1208.0	1205.8
52.5°	1139.9	1138.5	1129.9	1129.1	1127.0
55°	1061.8	1053.9	1046.8	1046.8	1045.3
57.5°	975.8	970.1	960.8	960.8	959.3
60°	887.0	882.0	871.2	872.7	871.2
62.5°	800.3	789.5	779.5	783.8	780.2
65°	701.4	695.7	684.9	687.8	687.1
67.5°	611.1	600.4	590.4	596.1	593.2
70°	510.8	505.1	495.1	500.8	493.6
72.5°	416.3	411.3	401.2	407.7	400.5
75°	324.6	319.5	311.7	317.4	310.2
77.5°	237.9	234.3	227.1	232.9	234.3
80°	159.1	154.8	151.2	156.2	157.6
82.5°	93.1	90.3	88.8	89.6	93.1
85°	45.1	41.6	41.6	42.3	42.3
87.5°	12.2	10.7	12.2	12.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)