

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: P974287

Luminaire Tested: FLR2-24-65-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974287
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-L840-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L840-CP080
Ballast/Driver: -

Summary

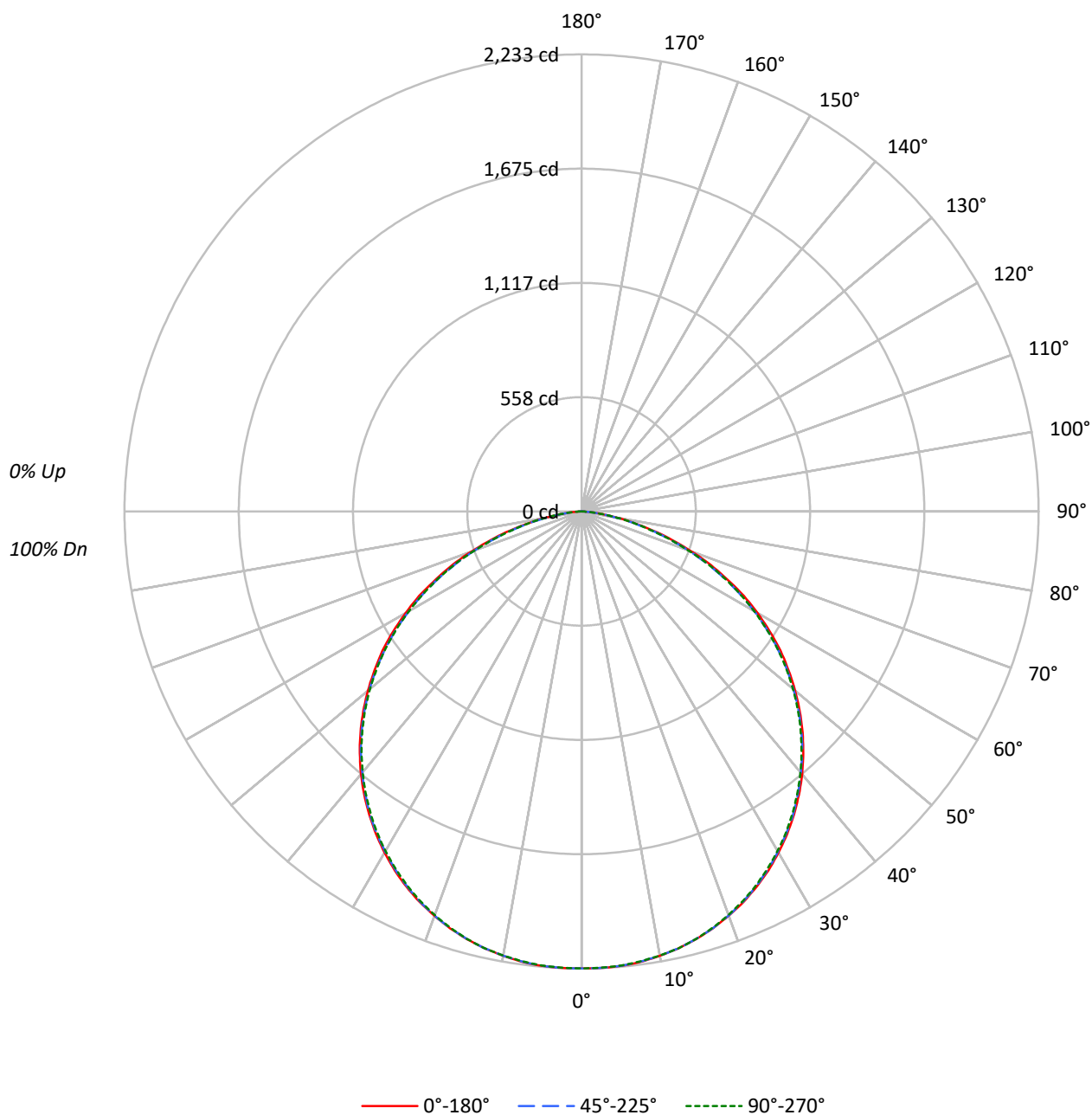
Lumens per Lamp: N/A
Luminaire Lumens: 6310.5 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3004	3004	3004
5°	3010	3010	3008
10°	3012	3011	3010
15°	3013	3012	3012
20°	3010	3009	3004
25°	3004	2998	2994
30°	2991	2982	2976
35°	2971	2963	2953
40°	2945	2927	2923
45°	2907	2890	2881
50°	2852	2831	2822
55°	2785	2746	2742
60°	2669	2622	2622
65°	2497	2438	2446
70°	2247	2178	2172
75°	1887	1812	1803
80°	1378	1309	1366
85°	780	718	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	3.4
10°-20°	610.6	9.7
20°-30°	930.9	14.8
30°-40°	1127.9	17.9
40°-50°	1171.5	18.6
50°-60°	1048.0	16.6
60°-70°	763.8	12.1
70°-80°	378.3	6.0
80°-90°	67.6	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°	1753.4	27.8
0°-40°	2881.2	45.7
0°-60°	5100.8	80.8
0°-90°	6310.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6310.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2233	2233	2233	2233	2233	
5°	2229	2230	2229	2229	2227	212
15°	2163	2162	2162	2164	2162	611
25°	2024	2021	2020	2019	2016	933
35°	1809	1807	1804	1801	1798	1131
45°	1528	1525	1519	1516	1514	1177
55°	1187	1178	1170	1170	1169	1058
65°	784	778	766	769	768	778
75°	363	357	348	355	347	387
85°	50	46	46	47	47	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2232.8	2232.8	2232.8	2232.8	2232.8
2.5°	2232.8	2232.0	2232.0	2232.8	2231.2
5°	2228.8	2229.6	2228.8	2228.8	2227.2
7.5°	2220.0	2219.2	2218.4	2219.2	2216.8
10°	2204.7	2204.7	2203.9	2204.7	2203.1
12.5°	2186.3	2186.3	2186.3	2187.1	2186.3
15°	2163.1	2162.3	2162.3	2163.9	2162.3
17.5°	2135.8	2135.0	2135.0	2134.2	2132.6
20°	2102.2	2102.2	2101.4	2100.6	2098.2
22.5°	2066.1	2065.3	2062.9	2062.9	2059.7
25°	2023.7	2021.3	2019.7	2018.9	2016.5
27.5°	1977.2	1974.0	1971.6	1970.0	1967.6
30°	1925.1	1921.9	1919.5	1917.1	1915.5
32.5°	1869.1	1867.5	1863.5	1862.7	1859.4
35°	1809.0	1806.6	1804.2	1801.0	1797.8
37.5°	1744.9	1742.5	1736.9	1735.3	1732.9
40°	1676.8	1673.6	1666.4	1666.4	1664.0
42.5°	1603.9	1600.7	1595.9	1592.7	1591.1
45°	1527.8	1524.6	1519.0	1515.8	1514.2
47.5°	1446.9	1444.5	1438.0	1435.6	1433.2
50°	1362.7	1359.5	1352.3	1350.7	1348.3
52.5°	1274.6	1273.0	1263.4	1262.6	1260.2
55°	1187.3	1178.5	1170.5	1170.5	1168.9
57.5°	1091.2	1084.7	1074.3	1074.3	1072.7
60°	991.8	986.2	974.2	975.8	974.2
62.5°	894.9	882.9	871.6	876.4	872.4
65°	784.3	777.9	765.9	769.1	768.3
67.5°	683.4	671.4	660.1	666.5	663.3
70°	571.2	564.8	553.6	560.0	552.0
72.5°	465.5	459.9	448.6	455.8	447.8
75°	362.9	357.3	348.5	354.9	346.9
77.5°	266.0	262.0	254.0	260.4	262.0
80°	177.9	173.0	169.0	174.6	176.3
82.5°	104.1	100.9	99.3	100.1	104.1
85°	50.5	46.5	46.5	47.3	47.3
87.5°	13.6	12.0	13.6	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)