

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: P974303

Luminaire Tested: FLR2-24-65-L840-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974303
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L840-CP187
Ballast/Driver: -

Summary

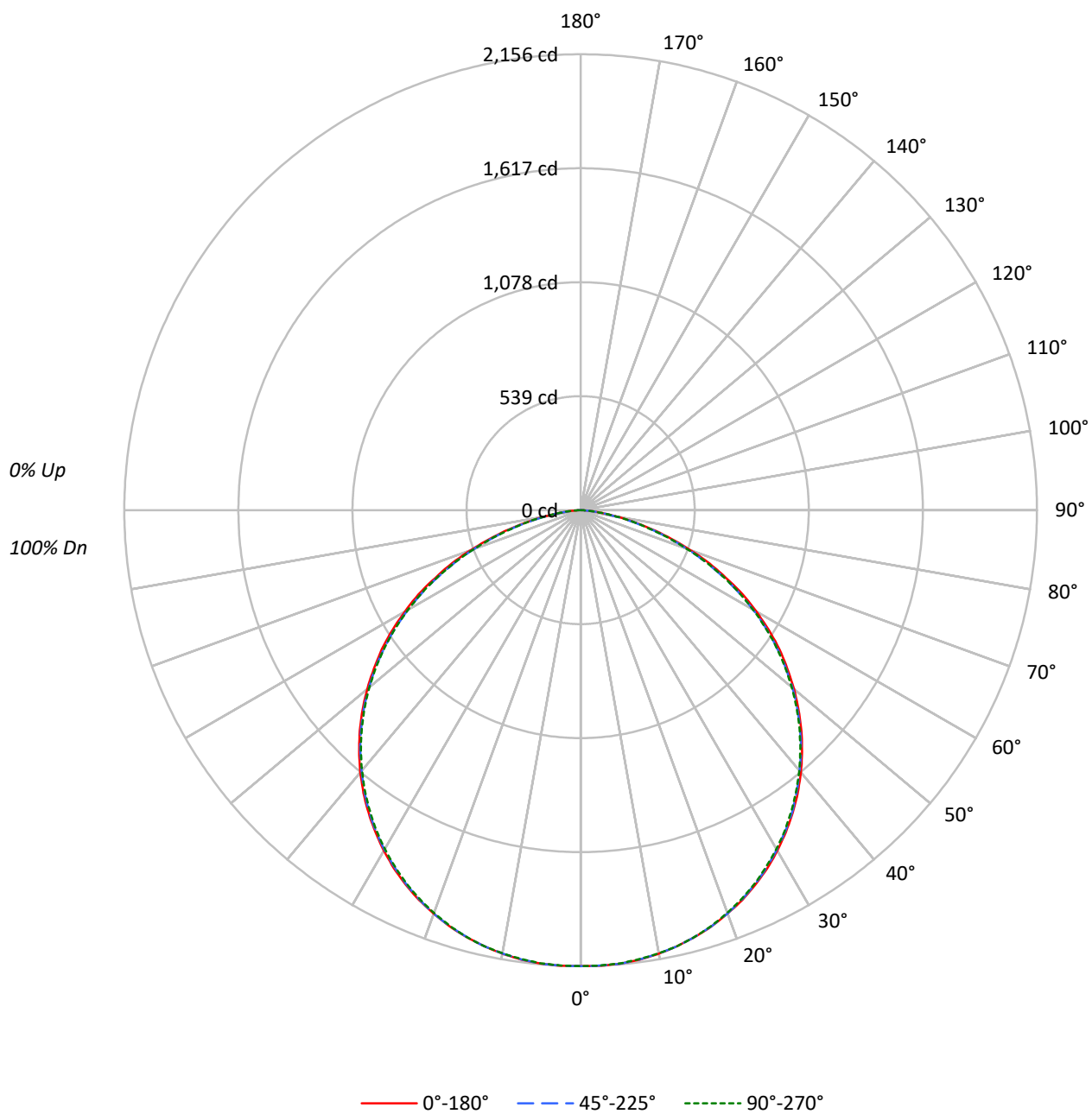
Lumens per Lamp: N/A
Luminaire Lumens: 6094.7 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2901	2901	2901
5°	2907	2907	2905
10°	2909	2908	2907
15°	2910	2909	2909
20°	2907	2906	2901
25°	2902	2896	2891
30°	2889	2880	2874
35°	2870	2862	2852
40°	2844	2827	2823
45°	2808	2791	2783
50°	2755	2734	2726
55°	2690	2652	2648
60°	2578	2532	2532
65°	2412	2355	2362
70°	2170	2103	2097
75°	1822	1750	1742
80°	1331	1265	1319
85°	752	693	706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.4
10°-20°	589.7	9.7
20°-30°	899.1	14.8
30°-40°	1089.3	17.9
40°-50°	1131.5	18.6
50°-60°	1012.2	16.6
60°-70°	737.7	12.1
70°-80°	365.3	6.0
80°-90°	65.3	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°	1693.4	27.8
0°-40°	2782.7	45.7
0°-60°	4926.3	80.8
0°-90°	6094.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2152	2153	2152	2152	2151	205
15°	2089	2088	2088	2090	2088	590
25°	1954	1952	1951	1950	1948	901
35°	1747	1745	1742	1739	1736	1093
45°	1476	1472	1467	1464	1462	1137
55°	1147	1138	1130	1130	1129	1022
65°	758	751	740	743	742	751
75°	350	345	337	343	335	374
85°	49	45	45	46	46	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.4	2156.4	2156.4	2156.4	2156.4
2.5°	2156.4	2155.6	2155.6	2156.4	2154.9
5°	2152.5	2153.3	2152.5	2152.5	2151.0
7.5°	2144.0	2143.3	2142.5	2143.3	2140.9
10°	2129.3	2129.3	2128.6	2129.3	2127.8
12.5°	2111.5	2111.5	2111.5	2112.3	2111.5
15°	2089.1	2088.3	2088.3	2089.9	2088.3
17.5°	2062.8	2062.0	2062.0	2061.2	2059.7
20°	2030.3	2030.3	2029.5	2028.7	2026.4
22.5°	1995.5	1994.7	1992.4	1992.4	1989.3
25°	1954.5	1952.1	1950.6	1949.8	1947.5
27.5°	1909.6	1906.5	1904.2	1902.6	1900.3
30°	1859.3	1856.2	1853.9	1851.6	1850.0
32.5°	1805.1	1803.6	1799.7	1798.9	1795.8
35°	1747.1	1744.8	1742.5	1739.4	1736.3
37.5°	1685.2	1682.9	1677.5	1675.9	1673.6
40°	1619.4	1616.3	1609.4	1609.4	1607.1
42.5°	1549.0	1545.9	1541.3	1538.2	1536.6
45°	1475.5	1472.4	1467.0	1463.9	1462.4
47.5°	1397.4	1395.1	1388.9	1386.5	1384.2
50°	1316.1	1313.0	1306.1	1304.5	1302.2
52.5°	1231.0	1229.5	1220.2	1219.4	1217.1
55°	1146.7	1138.2	1130.4	1130.4	1128.9
57.5°	1053.8	1047.6	1037.6	1037.6	1036.0
60°	957.9	952.5	940.9	942.4	940.9
62.5°	864.3	852.7	841.8	846.5	842.6
65°	757.5	751.3	739.7	742.8	742.0
67.5°	660.0	648.4	637.6	643.8	640.7
70°	551.7	545.5	534.7	540.8	533.1
72.5°	449.5	444.1	433.3	440.3	432.5
75°	350.5	345.1	336.6	342.8	335.0
77.5°	256.9	253.0	245.3	251.5	253.0
80°	171.8	167.1	163.3	168.7	170.2
82.5°	100.6	97.5	95.9	96.7	100.6
85°	48.7	44.9	44.9	45.7	45.7
87.5°	13.2	11.6	13.2	13.9	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)