

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: P974311

Luminaire Tested: FLR2-24-65-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974311
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L840-CP250
Ballast/Driver: -

Summary

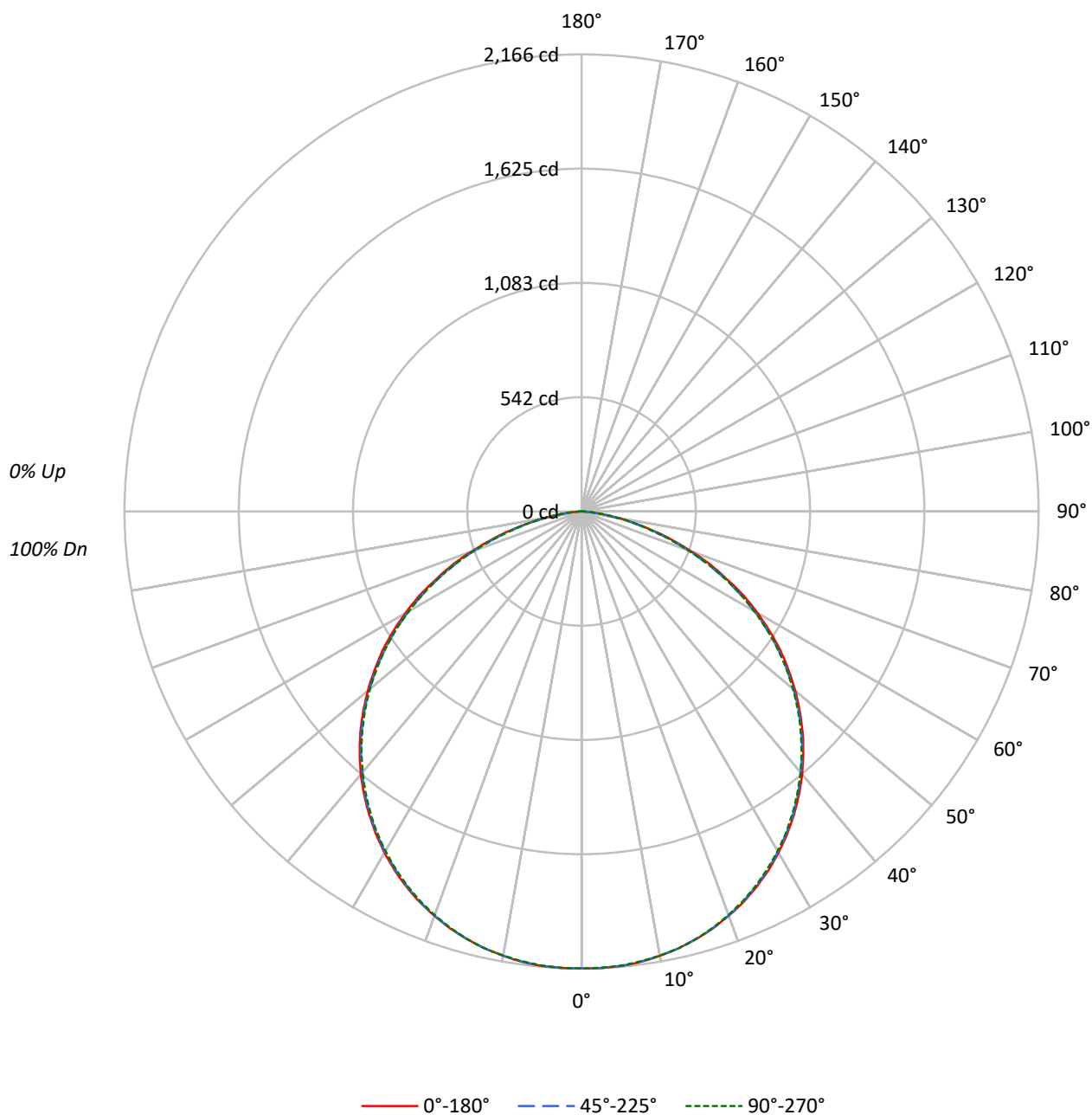
Lumens per Lamp: N/A
Luminaire Lumens: 6121.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2914	2914	2914
5°	2920	2920	2918
10°	2922	2921	2920
15°	2923	2922	2922
20°	2920	2919	2914
25°	2914	2909	2904
30°	2901	2893	2887
35°	2882	2875	2865
40°	2857	2839	2835
45°	2820	2804	2795
50°	2767	2746	2738
55°	2702	2663	2660
60°	2589	2543	2543
65°	2422	2365	2373
70°	2180	2113	2107
75°	1830	1758	1749
80°	1337	1271	1325
85°	756	696	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2820 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.4
10°-20°	592.3	9.7
20°-30°	903.0	14.8
30°-40°	1094.1	17.9
40°-50°	1136.5	18.6
50°-60°	1016.7	16.6
60°-70°	741.0	12.1
70°-80°	367.0	6.0
80°-90°	65.6	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°	1700.9	27.8
0°-40°	2795.0	45.7
0°-60°	4948.2	80.8
0°-90°	6121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6121.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2162	2163	2162	2162	2160	206
15°	2098	2098	2098	2099	2098	592
25°	1963	1961	1959	1958	1956	905
35°	1755	1752	1750	1747	1744	1098
45°	1482	1479	1474	1470	1469	1142
55°	1152	1143	1135	1135	1134	1026
65°	761	755	743	746	745	754
75°	352	347	338	344	336	375
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°	2166.0	2166.0	2166.0	2166.0	2166.0
2.5°	2166.0	2165.2	2165.2	2166.0	2164.4
5°	2162.1	2162.9	2162.1	2162.1	2160.5
7.5°	2153.5	2152.7	2152.0	2152.7	2150.4
10°	2138.8	2138.8	2138.0	2138.8	2137.2
12.5°	2120.9	2120.9	2120.9	2121.7	2120.9
15°	2098.3	2097.6	2097.6	2099.1	2097.6
17.5°	2071.9	2071.1	2071.1	2070.4	2068.8
20°	2039.3	2039.3	2038.5	2037.7	2035.4
22.5°	2004.3	2003.5	2001.2	2001.2	1998.1
25°	1963.1	1960.8	1959.2	1958.5	1956.1
27.5°	1918.0	1914.9	1912.6	1911.1	1908.7
30°	1867.5	1864.4	1862.1	1859.8	1858.2
32.5°	1813.1	1811.6	1807.7	1806.9	1803.8
35°	1754.8	1752.5	1750.2	1747.1	1744.0
37.5°	1692.7	1690.3	1684.9	1683.3	1681.0
40°	1626.6	1623.5	1616.5	1616.5	1614.2
42.5°	1555.9	1552.8	1548.1	1545.0	1543.5
45°	1482.1	1478.9	1473.5	1470.4	1468.8
47.5°	1403.6	1401.2	1395.0	1392.7	1390.3
50°	1322.0	1318.9	1311.9	1310.3	1308.0
52.5°	1236.5	1234.9	1225.6	1224.8	1222.5
55°	1151.8	1143.2	1135.4	1135.4	1133.9
57.5°	1058.5	1052.3	1042.2	1042.2	1040.6
60°	962.1	956.7	945.0	946.6	945.0
62.5°	868.1	856.4	845.6	850.2	846.3
65°	760.8	754.6	743.0	746.1	745.3
67.5°	662.9	651.3	640.4	646.6	643.5
70°	554.1	547.9	537.0	543.2	535.5
72.5°	451.5	446.1	435.2	442.2	434.4
75°	352.1	346.6	338.1	344.3	336.5
77.5°	258.0	254.1	246.4	252.6	254.1
80°	172.5	167.9	164.0	169.4	171.0
82.5°	101.0	97.9	96.4	97.1	101.0
85°	49.0	45.1	45.1	45.9	45.9
87.5°	13.2	11.7	13.2	14.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)