

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: P974087

Luminaire Tested: FLR2-24-65-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974087
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-L830-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L830-CP250
Ballast/Driver: -

Summary

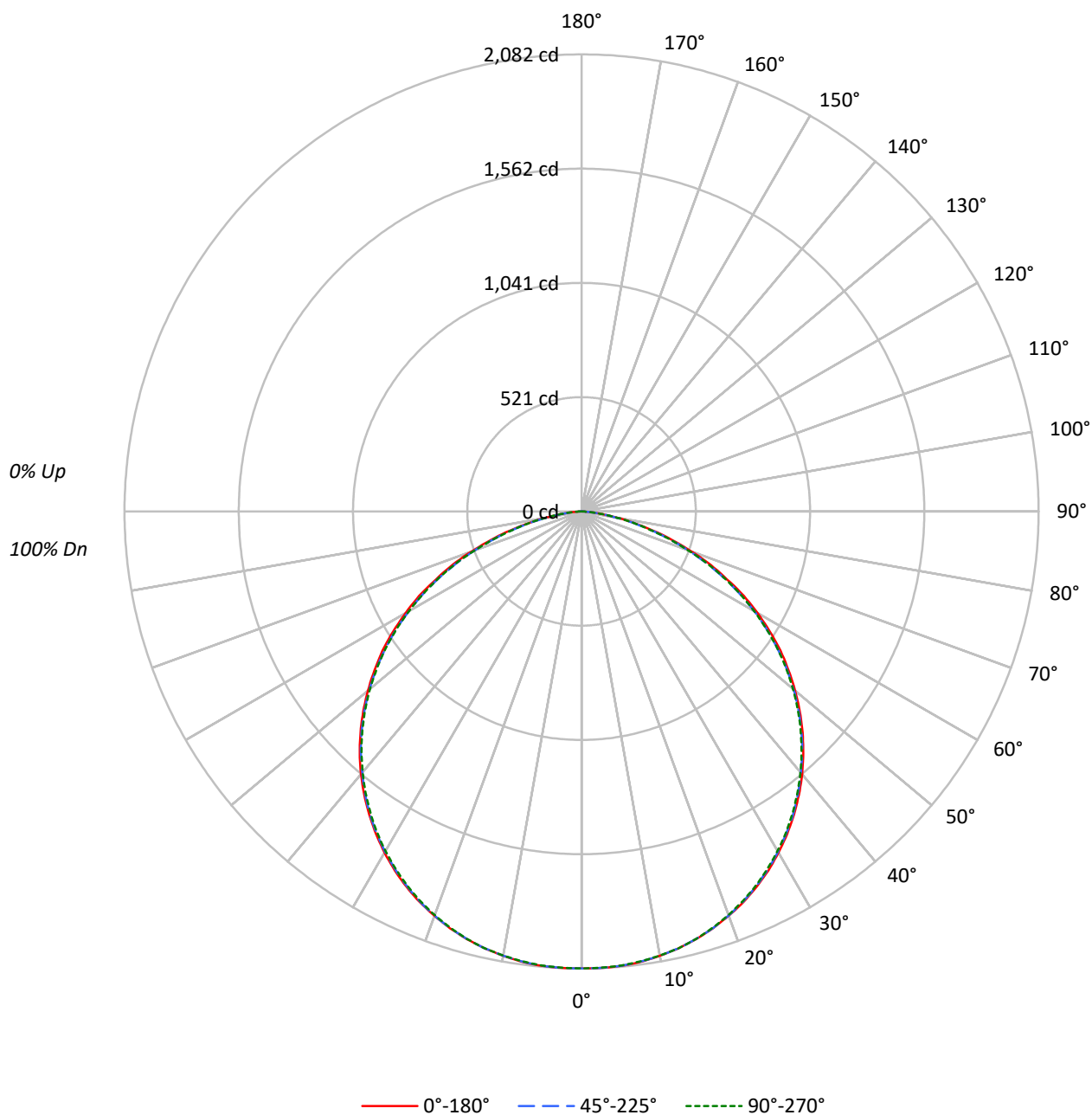
Lumens per Lamp: N/A
Luminaire Lumens: 5883.9 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2801	2801	2801
5°	2807	2807	2805
10°	2809	2808	2807
15°	2809	2808	2808
20°	2807	2805	2801
25°	2801	2796	2791
30°	2789	2781	2775
35°	2770	2763	2753
40°	2746	2729	2725
45°	2711	2695	2686
50°	2660	2639	2632
55°	2597	2560	2557
60°	2489	2444	2444
65°	2328	2273	2281
70°	2095	2031	2025
75°	1759	1689	1681
80°	1285	1221	1273
85°	727	668	681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2711 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	3.4
10°-20°	569.3	9.7
20°-30°	868.0	14.8
30°-40°	1051.6	17.9
40°-50°	1092.3	18.6
50°-60°	977.2	16.6
60°-70°	712.2	12.1
70°-80°	352.7	6.0
80°-90°	63.0	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°	1634.9	27.8
0°-40°	2686.5	45.7
0°-60°	4756.0	80.8
0°-90°	5883.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5883.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2078	2079	2078	2078	2077	198
15°	2017	2016	2016	2018	2016	569
25°	1887	1885	1883	1882	1880	870
35°	1687	1684	1682	1679	1676	1055
45°	1424	1422	1416	1413	1412	1098
55°	1107	1099	1091	1091	1090	986
65°	731	725	714	717	716	725
75°	338	333	325	331	323	361
85°	47	43	43	44	44	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2081.8	2081.8	2081.8	2081.8	2081.8
2.5°	2081.8	2081.1	2081.1	2081.8	2080.4
5°	2078.1	2078.9	2078.1	2078.1	2076.6
7.5°	2069.9	2069.1	2068.4	2069.1	2066.9
10°	2055.7	2055.7	2055.0	2055.7	2054.2
12.5°	2038.5	2038.5	2038.5	2039.3	2038.5
15°	2016.9	2016.1	2016.1	2017.6	2016.1
17.5°	1991.5	1990.7	1990.7	1990.0	1988.5
20°	1960.1	1960.1	1959.3	1958.6	1956.4
22.5°	1926.5	1925.7	1923.5	1923.5	1920.5
25°	1886.9	1884.6	1883.1	1882.4	1880.2
27.5°	1843.6	1840.6	1838.3	1836.8	1834.6
30°	1795.0	1792.0	1789.8	1787.5	1786.0
32.5°	1742.7	1741.2	1737.5	1736.7	1733.8
35°	1686.7	1684.5	1682.2	1679.2	1676.2
37.5°	1626.9	1624.7	1619.5	1618.0	1615.7
40°	1563.4	1560.5	1553.7	1553.7	1551.5
42.5°	1495.5	1492.5	1488.0	1485.0	1483.5
45°	1424.5	1421.5	1416.3	1413.3	1411.8
47.5°	1349.1	1346.8	1340.8	1338.6	1336.4
50°	1270.6	1267.6	1260.9	1259.4	1257.2
52.5°	1188.5	1187.0	1178.0	1177.2	1175.0
55°	1107.0	1098.8	1091.3	1091.3	1089.9
57.5°	1017.4	1011.4	1001.7	1001.7	1000.2
60°	924.8	919.5	908.3	909.8	908.3
62.5°	834.4	823.2	812.7	817.2	813.5
65°	731.3	725.3	714.1	717.1	716.4
67.5°	637.2	626.0	615.5	621.5	618.5
70°	532.6	526.6	516.2	522.1	514.7
72.5°	434.0	428.8	418.3	425.0	417.6
75°	338.4	333.2	324.9	330.9	323.4
77.5°	248.0	244.3	236.8	242.8	244.3
80°	165.8	161.3	157.6	162.8	164.3
82.5°	97.1	94.1	92.6	93.4	97.1
85°	47.1	43.3	43.3	44.1	44.1
87.5°	12.7	11.2	12.7	13.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)