

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: P974111

Luminaire Tested: FLR2-24-65-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974111
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L830-CA125
Ballast/Driver: -

Summary

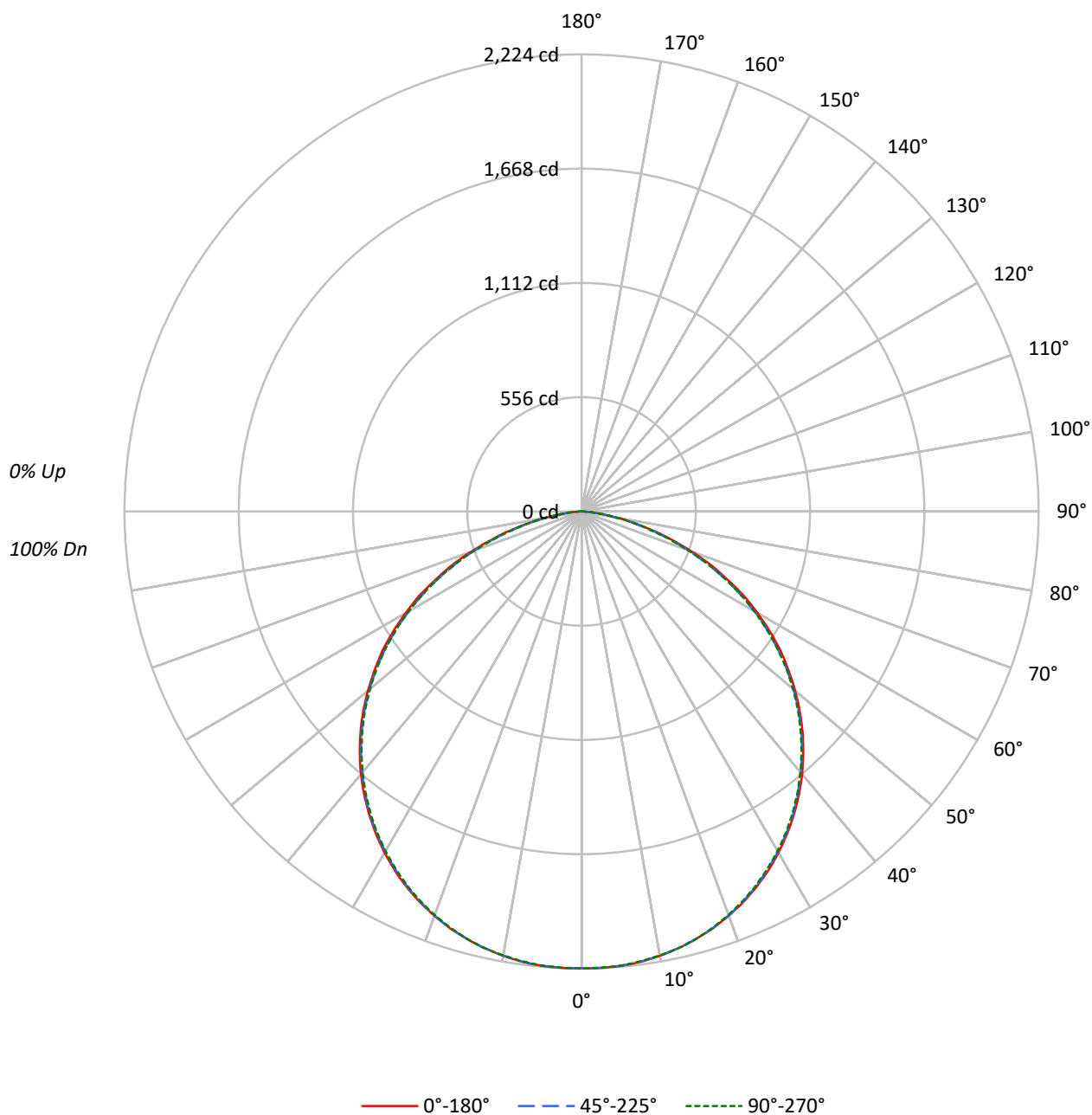
Lumens per Lamp: N/A
Luminaire Lumens: 6284.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2992	2992	2992
5°	2998	2998	2996
10°	3000	2999	2998
15°	3001	2999	2999
20°	2998	2996	2992
25°	2992	2986	2981
30°	2979	2970	2964
35°	2959	2951	2941
40°	2933	2915	2911
45°	2895	2878	2869
50°	2841	2819	2811
55°	2774	2734	2730
60°	2658	2611	2611
65°	2487	2428	2436
70°	2238	2169	2162
75°	1879	1804	1796
80°	1372	1304	1360
85°	777	715	727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2895 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	3.4
10°-20°	608.0	9.7
20°-30°	927.0	14.8
30°-40°	1123.2	17.9
40°-50°	1166.7	18.6
50°-60°	1043.7	16.6
60°-70°	760.7	12.1
70°-80°	376.7	6.0
80°-90°	67.3	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°	1746.1	27.8
0°-40°	2869.3	45.7
0°-60°	5079.7	80.8
0°-90°	6284.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6284.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2220	2220	2220	2220	2218	211
15°	2154	2153	2153	2155	2153	608
25°	2015	2013	2011	2010	2008	929
35°	1802	1799	1797	1794	1790	1127
45°	1522	1518	1513	1510	1508	1173
55°	1182	1174	1166	1166	1164	1053
65°	781	775	763	766	765	774
75°	361	356	347	353	346	385
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°	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2223.5	2222.7	2222.7	2223.5	2221.9
5°	2219.5	2220.3	2219.5	2219.5	2218.0
7.5°	2210.8	2210.0	2209.2	2210.0	2207.6
10°	2195.6	2195.6	2194.8	2195.6	2194.0
12.5°	2177.3	2177.3	2177.3	2178.1	2177.3
15°	2154.1	2153.3	2153.3	2154.9	2153.3
17.5°	2127.0	2126.2	2126.2	2125.4	2123.8
20°	2093.5	2093.5	2092.7	2091.9	2089.5
22.5°	2057.6	2056.8	2054.4	2054.4	2051.2
25°	2015.3	2012.9	2011.3	2010.5	2008.1
27.5°	1969.0	1965.8	1963.4	1961.9	1959.5
30°	1917.2	1914.0	1911.6	1909.2	1907.6
32.5°	1861.3	1859.7	1855.7	1854.9	1851.8
35°	1801.5	1799.1	1796.7	1793.5	1790.3
37.5°	1737.7	1735.3	1729.7	1728.1	1725.7
40°	1669.8	1666.7	1659.5	1659.5	1657.1
42.5°	1597.2	1594.1	1589.3	1586.1	1584.5
45°	1521.5	1518.3	1512.7	1509.5	1507.9
47.5°	1440.9	1438.5	1432.1	1429.7	1427.3
50°	1357.1	1353.9	1346.7	1345.1	1342.7
52.5°	1269.3	1267.7	1258.2	1257.4	1255.0
55°	1182.4	1173.6	1165.6	1165.6	1164.0
57.5°	1086.6	1080.3	1069.9	1069.9	1068.3
60°	987.7	982.1	970.2	971.8	970.2
62.5°	891.2	879.2	868.0	872.8	868.8
65°	781.1	774.7	762.7	765.9	765.1
67.5°	680.5	668.6	657.4	663.8	660.6
70°	568.8	562.5	551.3	557.7	549.7
72.5°	463.5	458.0	446.8	454.0	446.0
75°	361.4	355.8	347.1	353.4	345.5
77.5°	264.9	260.9	252.9	259.3	260.9
80°	177.1	172.3	168.3	173.9	175.5
82.5°	103.7	100.5	98.9	99.7	103.7
85°	50.3	46.3	46.3	47.1	47.1
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)