

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: P974071

Luminaire Tested: FLR2-24-65-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974071
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L830-CP125
Ballast/Driver: -

Summary

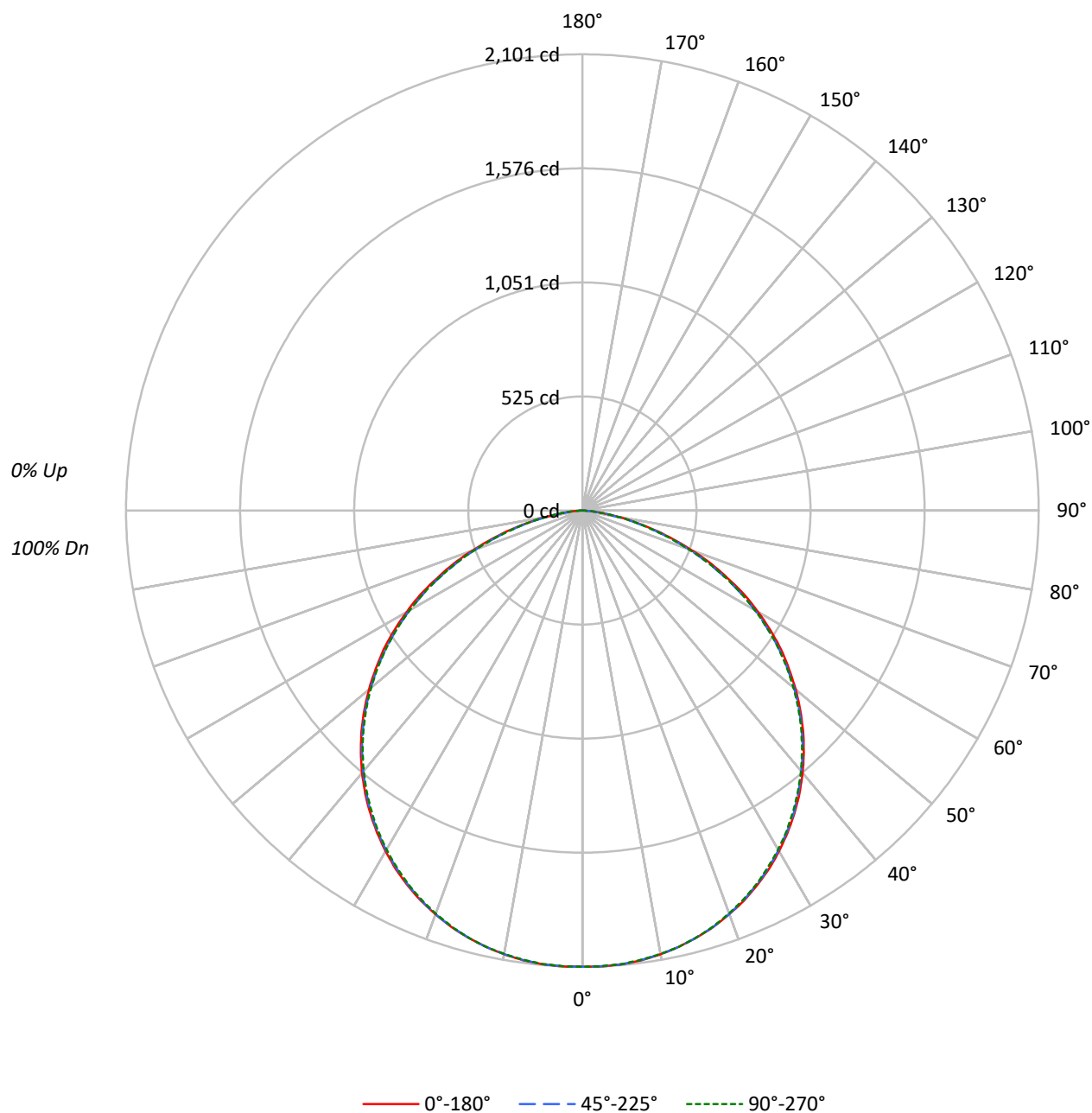
Lumens per Lamp: N/A
Luminaire Lumens: 5939.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974071

CATALOG NUMBER: FLR2-24-65-L830-CP125

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°	2827	2827	2827
5°	2833	2833	2831
10°	2835	2834	2833
15°	2836	2835	2835
20°	2833	2832	2827
25°	2828	2822	2817
30°	2815	2807	2801
35°	2796	2789	2779
40°	2772	2755	2751
45°	2736	2720	2712
50°	2685	2664	2656
55°	2621	2584	2581
60°	2512	2467	2467
65°	2350	2295	2302
70°	2115	2050	2044
75°	1776	1705	1697
80°	1297	1233	1285
85°	733	675	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2736 cd/sqm

TEST NUMBER: P974071

CATALOG NUMBER: FLR2-24-65-L830-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.4
10°-20°	574.6	9.7
20°-30°	876.1	14.8
30°-40°	1061.5	17.9
40°-50°	1102.6	18.6
50°-60°	986.4	16.6
60°-70°	718.9	12.1
70°-80°	356.0	6.0
80°-90°	63.6	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°	1650.2	27.8
0°-40°	2711.7	45.7
0°-60°	4800.7	80.8
0°-90°	5939.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5939.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2098	2098	2098	2098	2096	200
15°	2036	2035	2035	2037	2035	575
25°	1905	1902	1901	1900	1898	878
35°	1702	1700	1698	1695	1692	1065
45°	1438	1435	1430	1427	1425	1108
55°	1117	1109	1102	1102	1100	996
65°	738	732	721	724	723	732
75°	342	336	328	334	326	364
85°	48	44	44	44	44	66
90°	0	0	0	0	0	

TEST NUMBER: P974071

CATALOG NUMBER: FLR2-24-65-L830-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.4	2101.4	2101.4	2101.4	2101.4
2.5°	2101.4	2100.6	2100.6	2101.4	2099.9
5°	2097.6	2098.4	2097.6	2097.6	2096.1
7.5°	2089.3	2088.6	2087.8	2088.6	2086.3
10°	2075.0	2075.0	2074.3	2075.0	2073.5
12.5°	2057.7	2057.7	2057.7	2058.4	2057.7
15°	2035.8	2035.1	2035.1	2036.6	2035.1
17.5°	2010.2	2009.4	2009.4	2008.7	2007.2
20°	1978.5	1978.5	1977.7	1977.0	1974.7
22.5°	1944.6	1943.8	1941.6	1941.6	1938.5
25°	1904.6	1902.3	1900.8	1900.1	1897.8
27.5°	1860.9	1857.9	1855.6	1854.1	1851.8
30°	1811.9	1808.9	1806.6	1804.3	1802.8
32.5°	1759.1	1757.6	1753.8	1753.1	1750.0
35°	1702.5	1700.3	1698.0	1695.0	1692.0
37.5°	1642.2	1640.0	1634.7	1633.2	1630.9
40°	1578.1	1575.1	1568.3	1568.3	1566.1
42.5°	1509.5	1506.5	1502.0	1499.0	1497.4
45°	1437.9	1434.9	1429.6	1426.6	1425.1
47.5°	1361.7	1359.5	1353.4	1351.2	1348.9
50°	1282.6	1279.5	1272.8	1271.2	1269.0
52.5°	1199.6	1198.1	1189.1	1188.3	1186.0
55°	1117.4	1109.1	1101.6	1101.6	1100.1
57.5°	1027.0	1020.9	1011.1	1011.1	1009.6
60°	933.5	928.2	916.9	918.4	916.9
62.5°	842.2	830.9	820.4	824.9	821.1
65°	738.2	732.1	720.8	723.8	723.1
67.5°	643.2	631.9	621.3	627.3	624.3
70°	537.6	531.6	521.0	527.0	519.5
72.5°	438.1	432.8	422.2	429.0	421.5
75°	341.6	336.3	328.0	334.0	326.5
77.5°	250.3	246.6	239.0	245.1	246.6
80°	167.4	162.9	159.1	164.4	165.9
82.5°	98.0	95.0	93.5	94.3	98.0
85°	47.5	43.7	43.7	44.5	44.5
87.5°	12.8	11.3	12.8	13.6	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)