

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: P974447

Luminaire Tested: FLR2-24-65-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974447
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-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L850-CA125
Ballast/Driver: -

Summary

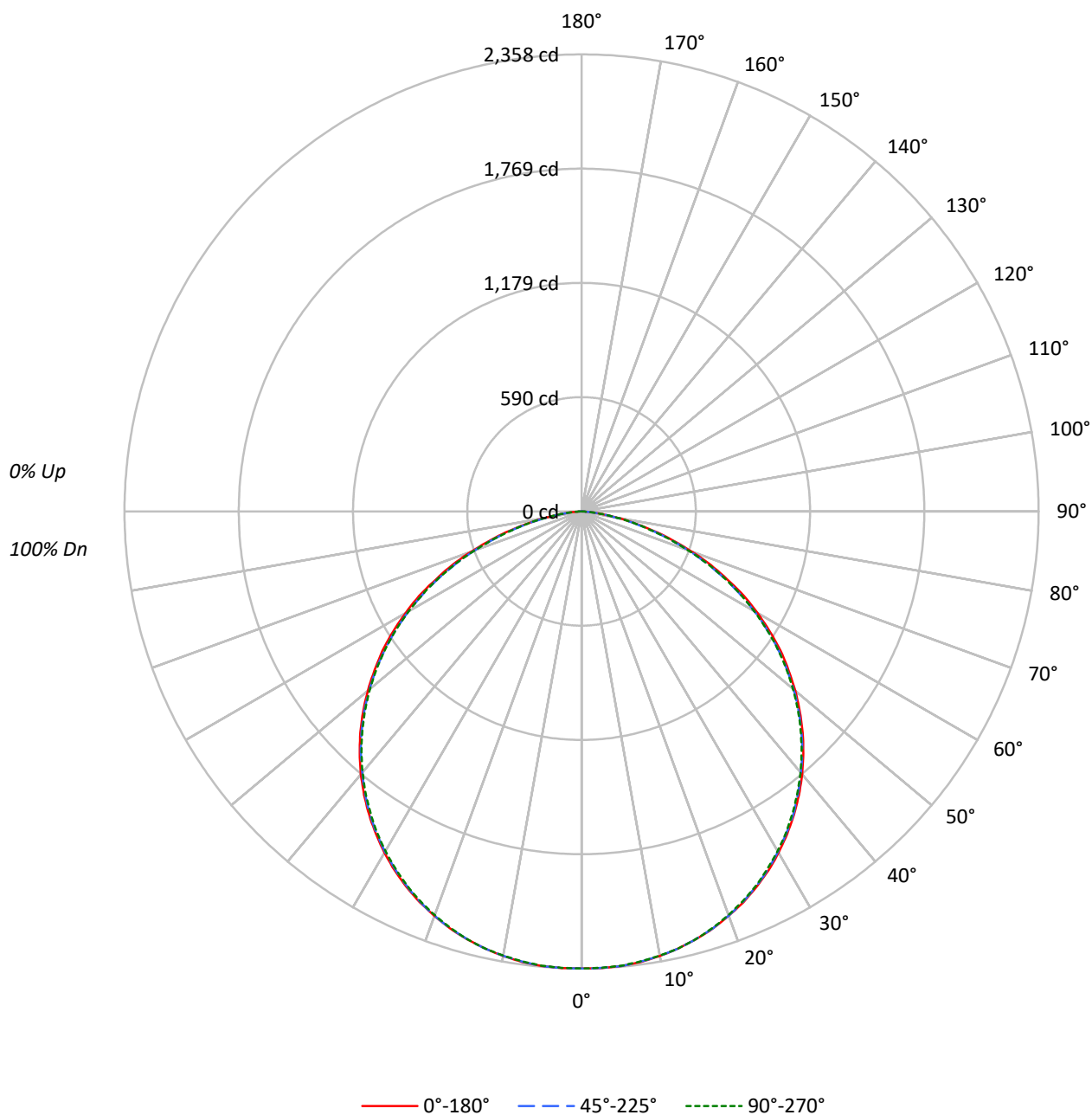
Lumens per Lamp: N/A
Luminaire Lumens: 6665.3 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P974447

CATALOG NUMBER: FLR2-24-65-L850-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974447

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3180	3180	3177
10°	3182	3180	3179
15°	3182	3181	3181
20°	3179	3178	3173
25°	3173	3167	3162
30°	3159	3150	3143
35°	3138	3130	3119
40°	3111	3091	3087
45°	3071	3053	3043
50°	3013	2990	2981
55°	2942	2900	2896
60°	2819	2769	2769
65°	2637	2575	2584
70°	2373	2300	2293
75°	1993	1914	1905
80°	1456	1383	1443
85°	823	758	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3071 cd/sqm

TEST NUMBER: P974447

CATALOG NUMBER: FLR2-24-65-L850-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	3.4
10°-20°	644.9	9.7
20°-30°	983.2	14.8
30°-40°	1191.2	17.9
40°-50°	1237.4	18.6
50°-60°	1106.9	16.6
60°-70°	806.8	12.1
70°-80°	399.5	6.0
80°-90°	71.4	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°	1852.0	27.8
0°-40°	3043.2	45.7
0°-60°	5387.6	80.8
0°-90°	6665.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6665.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2354	2355	2354	2354	2352	224
15°	2285	2284	2284	2286	2284	645
25°	2137	2135	2133	2132	2130	985
35°	1911	1908	1906	1902	1899	1195
45°	1614	1610	1604	1601	1599	1244
55°	1254	1245	1236	1236	1235	1117
65°	828	822	809	812	812	821
75°	383	377	368	375	366	409
85°	53	49	49	50	50	74
90°	0	0	0	0	0	

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CATALOG NUMBER: FLR2-24-65-L850-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2358.3	2358.3	2358.3	2358.3	2358.3
2.5°	2358.3	2357.5	2357.5	2358.3	2356.6
5°	2354.1	2354.9	2354.1	2354.1	2352.4
7.5°	2344.8	2343.9	2343.1	2343.9	2341.4
10°	2328.7	2328.7	2327.8	2328.7	2327.0
12.5°	2309.2	2309.2	2309.2	2310.1	2309.2
15°	2284.7	2283.8	2283.8	2285.5	2283.8
17.5°	2255.9	2255.1	2255.1	2254.2	2252.5
20°	2220.4	2220.4	2219.5	2218.7	2216.1
22.5°	2182.3	2181.4	2178.9	2178.9	2175.5
25°	2137.4	2134.9	2133.2	2132.4	2129.8
27.5°	2088.4	2085.0	2082.4	2080.8	2078.2
30°	2033.4	2030.0	2027.4	2024.9	2023.2
32.5°	1974.1	1972.4	1968.2	1967.4	1964.0
35°	1910.7	1908.1	1905.6	1902.2	1898.8
37.5°	1843.0	1840.4	1834.5	1832.8	1830.3
40°	1771.0	1767.7	1760.0	1760.0	1757.5
42.5°	1694.0	1690.7	1685.6	1682.2	1680.5
45°	1613.7	1610.3	1604.4	1601.0	1599.3
47.5°	1528.2	1525.7	1518.9	1516.3	1513.8
50°	1439.3	1436.0	1428.3	1426.7	1424.1
52.5°	1346.3	1344.6	1334.4	1333.6	1331.0
55°	1254.0	1244.7	1236.3	1236.3	1234.6
57.5°	1152.5	1145.7	1134.7	1134.7	1133.0
60°	1047.6	1041.6	1029.0	1030.6	1029.0
62.5°	945.2	932.5	920.6	925.7	921.5
65°	828.4	821.6	808.9	812.3	811.5
67.5°	721.8	709.1	697.3	704.0	700.6
70°	603.3	596.6	584.7	591.5	583.0
72.5°	491.6	485.7	473.9	481.5	473.0
75°	383.3	377.4	368.1	374.9	366.4
77.5°	280.9	276.7	268.2	275.0	276.7
80°	187.9	182.8	178.5	184.5	186.2
82.5°	110.0	106.6	104.9	105.8	110.0
85°	53.3	49.1	49.1	49.9	49.9
87.5°	14.4	12.7	14.4	15.2	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)