

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: P974335

Luminaire Tested: FLR2-24-65-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974335
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L840-CA125
Ballast/Driver: -

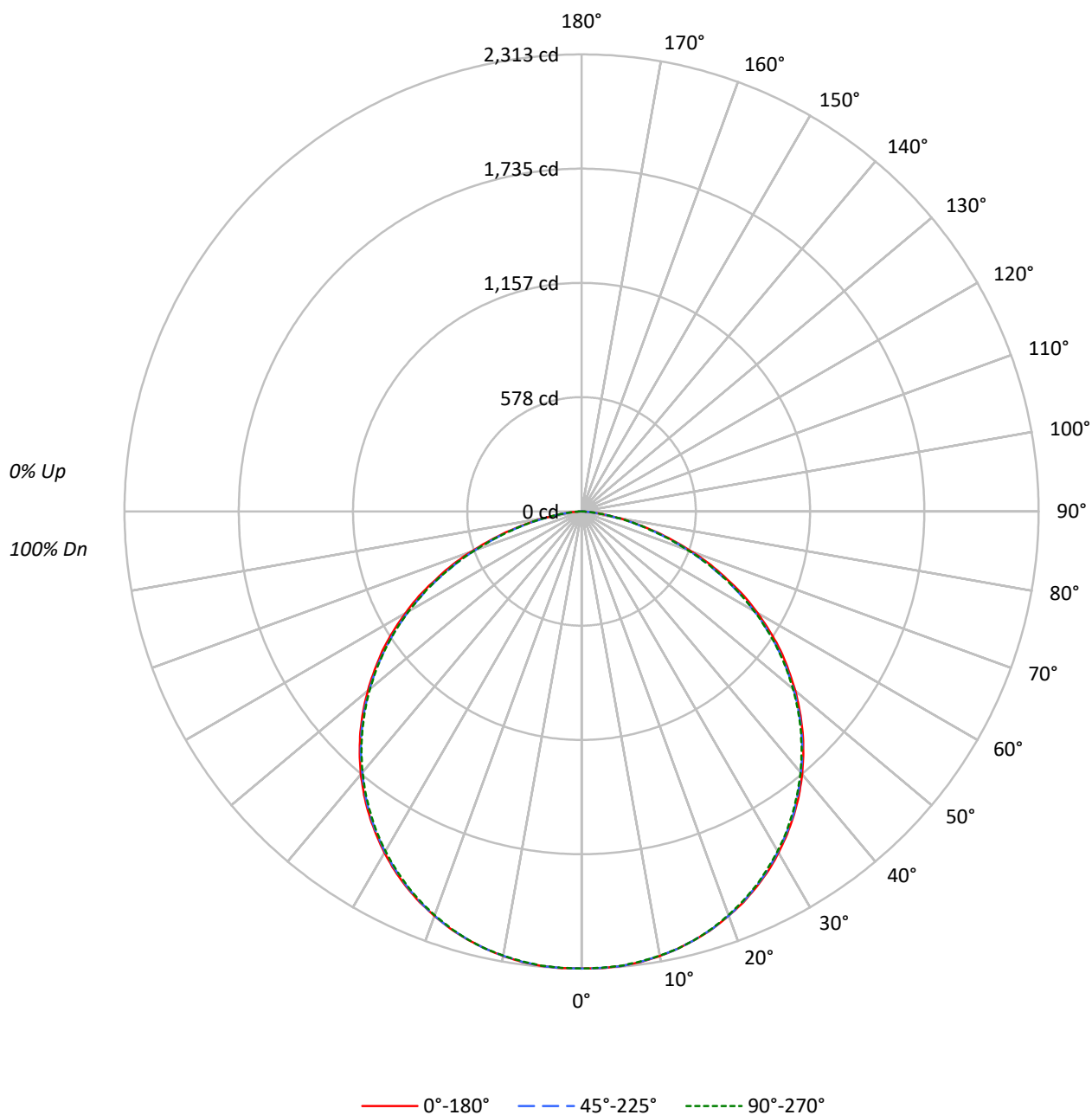
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6538.3 lumens
Efficiency: N/A
Efficacy: 122.4 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: P974335
CATALOG NUMBER: FLR2-24-65-L840-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974335

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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°	3113	3113	3113
5°	3119	3119	3117
10°	3121	3120	3119
15°	3122	3121	3121
20°	3119	3117	3113
25°	3113	3107	3102
30°	3099	3090	3084
35°	3079	3070	3060
40°	3051	3032	3028
45°	3012	2995	2985
50°	2955	2933	2924
55°	2886	2845	2841
60°	2765	2716	2716
65°	2587	2526	2534
70°	2328	2257	2250
75°	1955	1877	1868
80°	1428	1357	1415
85°	807	743	756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3012 cd/sqm

TEST NUMBER: P974335

CATALOG NUMBER: FLR2-24-65-L840-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	3.4
10°-20°	632.6	9.7
20°-30°	964.5	14.8
30°-40°	1168.6	17.9
40°-50°	1213.8	18.6
50°-60°	1085.9	16.6
60°-70°	791.4	12.1
70°-80°	391.9	6.0
80°-90°	70.1	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°	1816.7	27.8
0°-40°	2985.2	45.7
0°-60°	5284.9	80.8
0°-90°	6538.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6538.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2313	2313	2313	2313	2313	
5°	2309	2310	2309	2309	2308	220
15°	2241	2240	2240	2242	2240	633
25°	2097	2094	2093	2092	2089	966
35°	1874	1872	1869	1866	1863	1172
45°	1583	1580	1574	1570	1569	1220
55°	1230	1221	1213	1213	1211	1096
65°	813	806	794	797	796	806
75°	376	370	361	368	359	401
85°	52	48	48	49	49	72
90°	0	0	0	0	0	

TEST NUMBER: P974335

CATALOG NUMBER: FLR2-24-65-L840-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2313.4	2313.4	2313.4	2313.4	2313.4
2.5°	2313.4	2312.5	2312.5	2313.4	2311.7
5°	2309.2	2310.1	2309.2	2309.2	2307.6
7.5°	2300.1	2299.3	2298.4	2299.3	2296.8
10°	2284.3	2284.3	2283.5	2284.3	2282.7
12.5°	2265.2	2265.2	2265.2	2266.1	2265.2
15°	2241.2	2240.3	2240.3	2242.0	2240.3
17.5°	2212.9	2212.1	2212.1	2211.3	2209.6
20°	2178.1	2178.1	2177.2	2176.4	2173.9
22.5°	2140.7	2139.9	2137.4	2137.4	2134.1
25°	2096.7	2094.2	2092.6	2091.8	2089.3
27.5°	2048.6	2045.3	2042.8	2041.1	2038.6
30°	1994.6	1991.3	1988.8	1986.3	1984.7
32.5°	1936.5	1934.9	1930.7	1929.9	1926.6
35°	1874.3	1871.8	1869.3	1866.0	1862.7
37.5°	1807.9	1805.4	1799.6	1797.9	1795.4
40°	1737.3	1734.0	1726.5	1726.5	1724.0
42.5°	1661.8	1658.5	1653.5	1650.2	1648.5
45°	1582.9	1579.6	1573.8	1570.5	1568.8
47.5°	1499.1	1496.6	1490.0	1487.5	1485.0
50°	1411.9	1408.6	1401.1	1399.5	1397.0
52.5°	1320.6	1319.0	1309.0	1308.2	1305.7
55°	1230.1	1221.0	1212.7	1212.7	1211.1
57.5°	1130.5	1123.9	1113.1	1113.1	1111.4
60°	1027.6	1021.8	1009.4	1011.0	1009.4
62.5°	927.2	914.7	903.1	908.1	903.9
65°	812.6	806.0	793.5	796.9	796.0
67.5°	708.0	695.6	684.0	690.6	687.3
70°	591.8	585.2	573.6	580.2	571.9
72.5°	482.3	476.5	464.8	472.3	464.0
75°	376.0	370.2	361.1	367.7	359.4
77.5°	275.6	271.4	263.1	269.8	271.4
80°	184.3	179.3	175.1	181.0	182.6
82.5°	107.9	104.6	102.9	103.8	107.9
85°	52.3	48.1	48.1	49.0	49.0
87.5°	14.1	12.5	14.1	14.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)