

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: P974327

Luminaire Tested: FLR2-24-65-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974327
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L840-CA080
Ballast/Driver: -

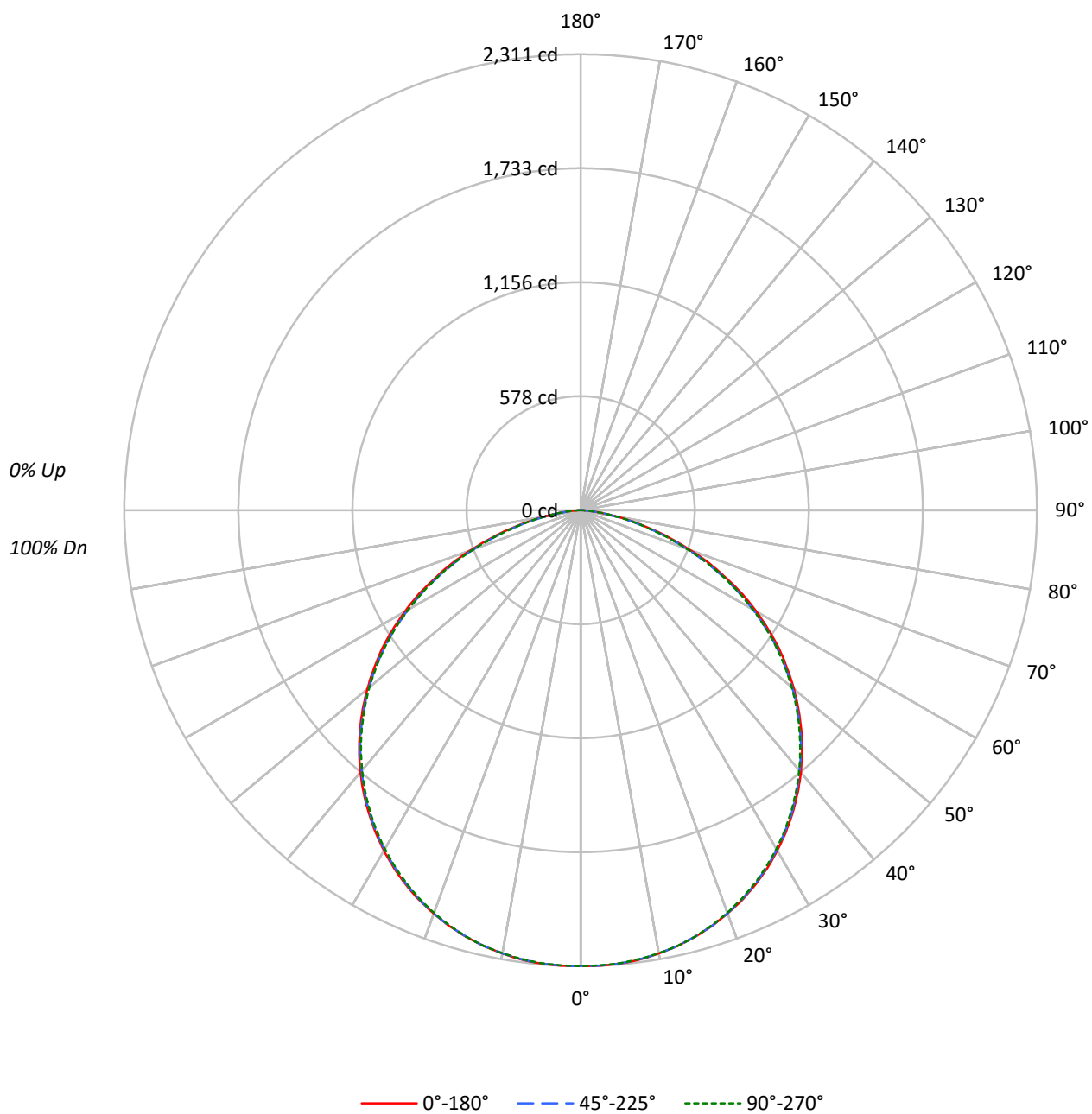
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6531.3 lumens
Efficiency: N/A
Efficacy: 122.3 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: P974327
CATALOG NUMBER: FLR2-24-65-L840-CA080

Luminous Intensity Polar Plot



TEST NUMBER: P974327

CATALOG NUMBER: FLR2-24-65-L840-CA080

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°	3109	3109	3109
5°	3115	3115	3113
10°	3118	3116	3115
15°	3118	3117	3117
20°	3115	3114	3109
25°	3109	3103	3098
30°	3096	3087	3080
35°	3075	3067	3056
40°	3048	3029	3025
45°	3009	2991	2982
50°	2952	2930	2921
55°	2883	2842	2838
60°	2762	2713	2713
65°	2585	2524	2532
70°	2326	2254	2247
75°	1953	1875	1866
80°	1426	1356	1413
85°	806	743	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3009 cd/sqm

TEST NUMBER: P974327
CATALOG NUMBER: FLR2-24-65-L840-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	3.4
10°-20°	631.9	9.7
20°-30°	963.5	14.8
30°-40°	1167.3	17.9
40°-50°	1212.5	18.6
50°-60°	1084.7	16.6
60°-70°	790.5	12.1
70°-80°	391.5	6.0
80°-90°	70.0	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°	1814.7	27.8
0°-40°	2982.0	45.7
0°-60°	5279.3	80.8
0°-90°	6531.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6531.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2311	2311	2311	2311	2311	
5°	2307	2308	2307	2307	2305	219
15°	2239	2238	2238	2240	2238	632
25°	2094	2092	2090	2090	2087	965
35°	1872	1870	1867	1864	1861	1171
45°	1581	1578	1572	1569	1567	1219
55°	1229	1220	1211	1211	1210	1095
65°	812	805	793	796	795	805
75°	376	370	361	367	359	400
85°	52	48	48	49	49	72
90°	0	0	0	0	0	

TEST NUMBER: P974327

CATALOG NUMBER: FLR2-24-65-L840-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2310.9	2310.9	2310.9	2310.9	2310.9
2.5°	2310.9	2310.1	2310.1	2310.9	2309.2
5°	2306.7	2307.6	2306.7	2306.7	2305.1
7.5°	2297.6	2296.8	2296.0	2296.8	2294.3
10°	2281.9	2281.9	2281.0	2281.9	2280.2
12.5°	2262.8	2262.8	2262.8	2263.6	2262.8
15°	2238.7	2237.9	2237.9	2239.6	2237.9
17.5°	2210.6	2209.7	2209.7	2208.9	2207.2
20°	2175.7	2175.7	2174.9	2174.1	2171.6
22.5°	2138.4	2137.6	2135.1	2135.1	2131.8
25°	2094.5	2092.0	2090.3	2089.5	2087.0
27.5°	2046.4	2043.1	2040.6	2038.9	2036.4
30°	1992.5	1989.2	1986.7	1984.2	1982.5
32.5°	1934.4	1932.8	1928.6	1927.8	1924.5
35°	1872.3	1869.8	1867.3	1864.0	1860.6
37.5°	1805.9	1803.4	1797.6	1796.0	1793.5
40°	1735.4	1732.1	1724.7	1724.7	1722.2
42.5°	1660.0	1656.7	1651.7	1648.4	1646.7
45°	1581.2	1577.9	1572.1	1568.8	1567.1
47.5°	1497.5	1495.0	1488.4	1485.9	1483.4
50°	1410.4	1407.1	1399.6	1398.0	1395.5
52.5°	1319.2	1317.5	1307.6	1306.8	1304.3
55°	1228.8	1219.7	1211.4	1211.4	1209.8
57.5°	1129.3	1122.7	1111.9	1111.9	1110.3
60°	1026.5	1020.7	1008.3	1009.9	1008.3
62.5°	926.2	913.7	902.1	907.1	903.0
65°	811.8	805.1	792.7	796.0	795.2
67.5°	707.3	694.8	683.2	689.9	686.5
70°	591.2	584.6	573.0	579.6	571.3
72.5°	481.7	475.9	464.3	471.8	463.5
75°	375.6	369.8	360.7	367.3	359.0
77.5°	275.3	271.1	262.8	269.5	271.1
80°	184.1	179.1	175.0	180.8	182.4
82.5°	107.8	104.5	102.8	103.6	107.8
85°	52.2	48.1	48.1	48.9	48.9
87.5°	14.1	12.4	14.1	14.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)