

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: P974296

Luminaire Tested: FLR2-24-72-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974296
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: FLR2-24-72-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L840-CP125
Ballast/Driver: -

Summary

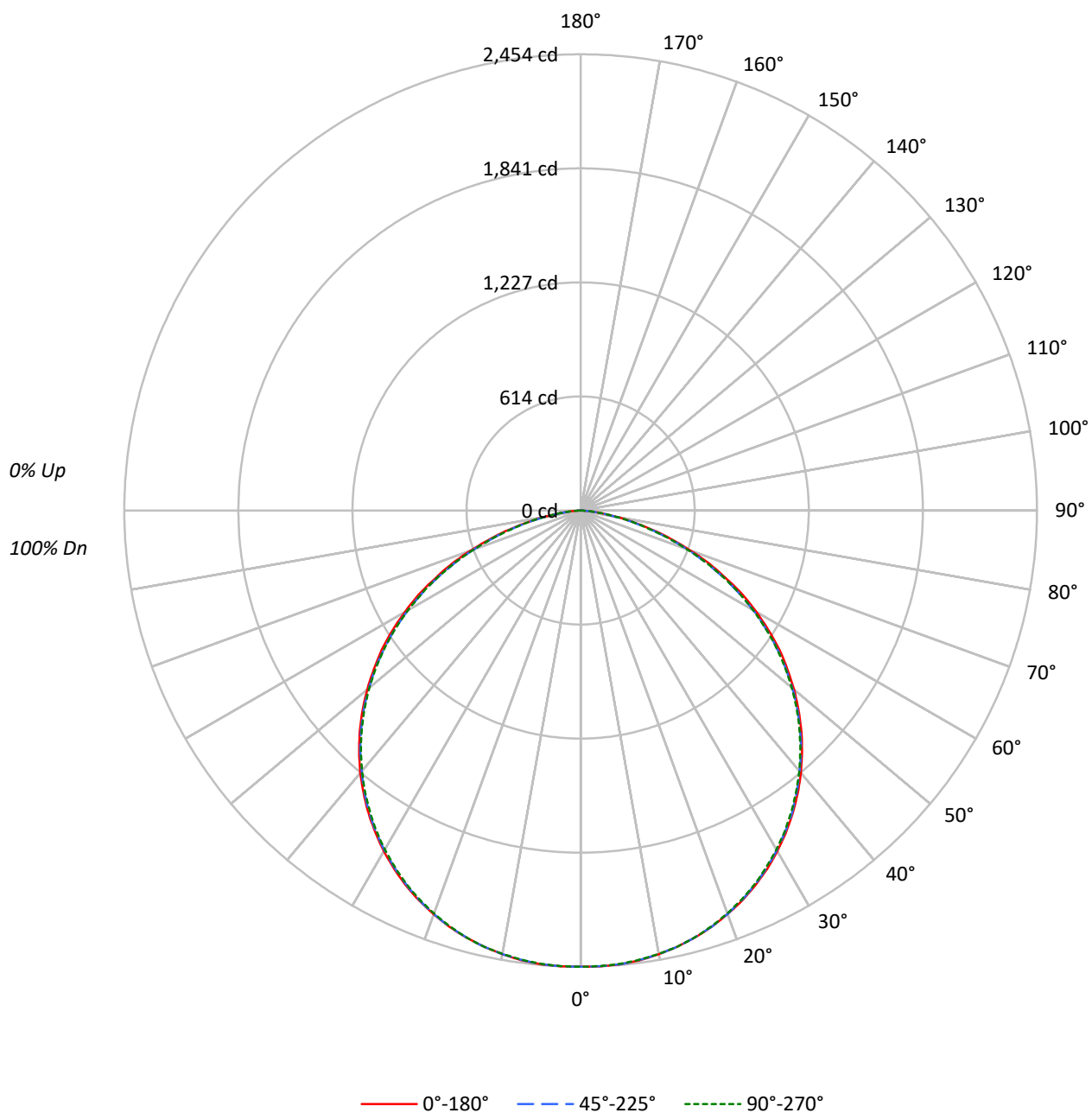
Lumens per Lamp: N/A
Luminaire Lumens: 6936.4 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.9
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: P974296

CATALOG NUMBER: FLR2-24-72-L840-CP125

Luminous Intensity Polar Plot



TEST NUMBER: P974296

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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°	3302	3302	3302
5°	3309	3309	3306
10°	3311	3310	3309
15°	3312	3311	3311
20°	3309	3307	3302
25°	3302	3296	3291
30°	3288	3278	3271
35°	3266	3257	3246
40°	3237	3217	3212
45°	3195	3177	3167
50°	3135	3111	3102
55°	3061	3018	3014
60°	2934	2882	2882
65°	2745	2680	2689
70°	2470	2394	2387
75°	2074	1992	1982
80°	1515	1440	1501
85°	857	789	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3195 cd/sqm

TEST NUMBER: P974296

CATALOG NUMBER: FLR2-24-72-L840-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	3.4
10°-20°	671.1	9.7
20°-30°	1023.2	14.8
30°-40°	1239.7	17.9
40°-50°	1287.7	18.6
50°-60°	1152.0	16.6
60°-70°	839.6	12.1
70°-80°	415.8	6.0
80°-90°	74.3	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°	1927.3	27.8
0°-40°	3167.0	45.7
0°-60°	5606.7	80.8
0°-90°	6936.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6936.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2450	2451	2450	2450	2448	233
15°	2378	2377	2377	2378	2377	671
25°	2224	2222	2220	2219	2216	1025
35°	1988	1986	1983	1980	1976	1244
45°	1679	1676	1670	1666	1664	1294
55°	1305	1295	1286	1286	1285	1163
65°	862	855	842	845	844	855
75°	399	393	383	390	381	425
85°	56	51	51	52	52	77
90°	0	0	0	0	0	

TEST NUMBER: P974296

CATALOG NUMBER: FLR2-24-72-L840-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2454.2	2453.3	2453.3	2454.2	2452.5
5°	2449.8	2450.7	2449.8	2449.8	2448.0
7.5°	2440.1	2439.2	2438.4	2439.2	2436.6
10°	2423.4	2423.4	2422.5	2423.4	2421.6
12.5°	2403.1	2403.1	2403.1	2404.0	2403.1
15°	2377.6	2376.7	2376.7	2378.5	2376.7
17.5°	2347.7	2346.8	2346.8	2345.9	2344.1
20°	2310.7	2310.7	2309.8	2308.9	2306.3
22.5°	2271.1	2270.2	2267.5	2267.5	2264.0
25°	2224.4	2221.7	2220.0	2219.1	2216.5
27.5°	2173.3	2169.8	2167.1	2165.4	2162.7
30°	2116.1	2112.5	2109.9	2107.3	2105.5
32.5°	2054.4	2052.7	2048.3	2047.4	2043.9
35°	1988.4	1985.7	1983.1	1979.6	1976.1
37.5°	1917.9	1915.3	1909.1	1907.4	1904.7
40°	1843.1	1839.6	1831.6	1831.6	1829.0
42.5°	1762.9	1759.4	1754.1	1750.6	1748.9
45°	1679.3	1675.8	1669.6	1666.1	1664.3
47.5°	1590.4	1587.7	1580.7	1578.0	1575.4
50°	1497.9	1494.4	1486.4	1484.7	1482.0
52.5°	1401.0	1399.3	1388.7	1387.8	1385.2
55°	1305.0	1295.4	1286.5	1286.5	1284.8
57.5°	1199.4	1192.3	1180.9	1180.9	1179.1
60°	1090.2	1084.0	1070.8	1072.6	1070.8
62.5°	983.6	970.4	958.1	963.4	959.0
65°	862.1	855.1	841.8	845.4	844.5
67.5°	751.1	737.9	725.6	732.7	729.1
70°	627.9	620.8	608.5	615.5	606.7
72.5°	511.6	505.5	493.1	501.1	492.3
75°	398.9	392.7	383.1	390.1	381.3
77.5°	292.4	288.0	279.1	286.2	288.0
80°	195.5	190.2	185.8	192.0	193.7
82.5°	114.5	111.0	109.2	110.1	114.5
85°	55.5	51.1	51.1	52.0	52.0
87.5°	15.0	13.2	15.0	15.9	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)