

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: P974336

Luminaire Tested: FLR2-24-72-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974336
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L840-CA125
Ballast/Driver: -

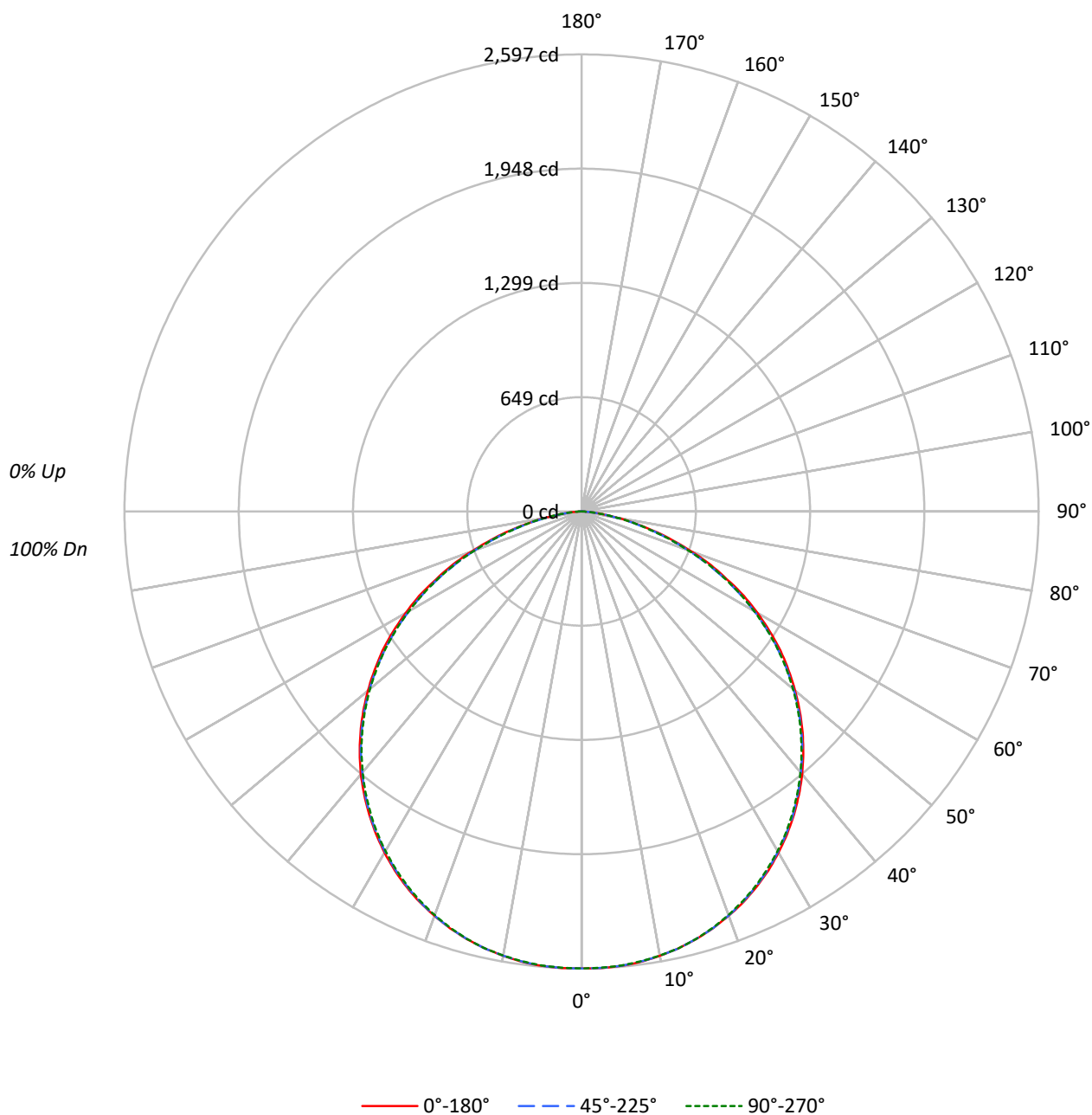
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7339.5 lumens
Efficiency: N/A
Efficacy: 120.5 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

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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		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3494	3494	3494
5°	3501	3501	3499
10°	3503	3502	3501
15°	3504	3503	3503
20°	3501	3499	3494
25°	3494	3487	3482
30°	3479	3468	3461
35°	3456	3447	3434
40°	3425	3404	3399
45°	3381	3362	3351
50°	3318	3292	3283
55°	3239	3193	3189
60°	3104	3049	3049
65°	2904	2836	2845
70°	2614	2533	2526
75°	2194	2107	2098
80°	1603	1523	1588
85°	906	834	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	3.4
10°-20°	710.1	9.7
20°-30°	1082.7	14.8
30°-40°	1311.8	17.9
40°-50°	1362.6	18.6
50°-60°	1218.9	16.6
60°-70°	888.4	12.1
70°-80°	440.0	6.0
80°-90°	78.6	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°	2039.3	27.8
0°-40°	3351.0	45.7
0°-60°	5932.5	80.8
0°-90°	7339.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7339.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2597	2597	2597	2597	2597	
5°	2592	2593	2592	2592	2590	247
15°	2516	2515	2515	2517	2515	710
25°	2354	2351	2349	2348	2345	1085
35°	2104	2101	2098	2095	2091	1316
45°	1777	1773	1767	1763	1761	1369
55°	1381	1371	1361	1361	1360	1230
65°	912	905	891	894	894	904
75°	422	416	405	413	404	450
85°	59	54	54	55	55	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2596.9	2596.9	2596.9	2596.9	2596.9
2.5°	2596.9	2595.9	2595.9	2596.9	2595.0
5°	2592.2	2593.1	2592.2	2592.2	2590.3
7.5°	2581.9	2581.0	2580.1	2581.0	2578.2
10°	2564.2	2564.2	2563.3	2564.2	2562.4
12.5°	2542.8	2542.8	2542.8	2543.7	2542.8
15°	2515.8	2514.9	2514.9	2516.7	2514.9
17.5°	2484.1	2483.2	2483.2	2482.2	2480.4
20°	2445.0	2445.0	2444.0	2443.1	2440.3
22.5°	2403.0	2402.1	2399.3	2399.3	2395.6
25°	2353.7	2350.9	2349.0	2348.1	2345.3
27.5°	2299.6	2295.9	2293.1	2291.2	2288.4
30°	2239.1	2235.3	2232.5	2229.7	2227.9
32.5°	2173.8	2172.0	2167.3	2166.4	2162.6
35°	2103.9	2101.1	2098.4	2094.6	2090.9
37.5°	2029.4	2026.6	2020.1	2018.2	2015.4
40°	1950.2	1946.5	1938.1	1938.1	1935.3
42.5°	1865.4	1861.7	1856.1	1852.4	1850.5
45°	1776.9	1773.2	1766.6	1762.9	1761.1
47.5°	1682.8	1680.0	1672.5	1669.7	1666.9
50°	1584.9	1581.2	1572.8	1571.0	1568.2
52.5°	1482.5	1480.6	1469.4	1468.5	1465.7
55°	1380.9	1370.6	1361.3	1361.3	1359.5
57.5°	1269.1	1261.6	1249.5	1249.5	1247.6
60°	1153.5	1147.0	1133.0	1134.9	1133.0
62.5°	1040.8	1026.8	1013.8	1019.4	1014.7
65°	912.2	904.8	890.8	894.5	893.6
67.5°	794.8	780.8	767.8	775.2	771.5
70°	664.4	656.9	643.9	651.3	642.0
72.5°	541.4	534.8	521.8	530.2	520.9
75°	422.1	415.6	405.3	412.8	403.5
77.5°	309.3	304.7	295.4	302.8	304.7
80°	206.9	201.3	196.6	203.1	205.0
82.5°	121.1	117.4	115.5	116.5	121.1
85°	58.7	54.0	54.0	55.0	55.0
87.5°	15.8	14.0	15.8	16.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)