Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P974657

Luminaire Tested: FLR2-24-90HE-L930-CA125

Issue Date: 3/13/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P974657
	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:	FLR2-24-90HE-L930-CA125
Description:	SHAPER SENSE CIRCLE
Light Source:	
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7178.6 lumens
Efficiency:	N/A
Efficacy:	102.1 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):	70.3
Input Voltage (V):	
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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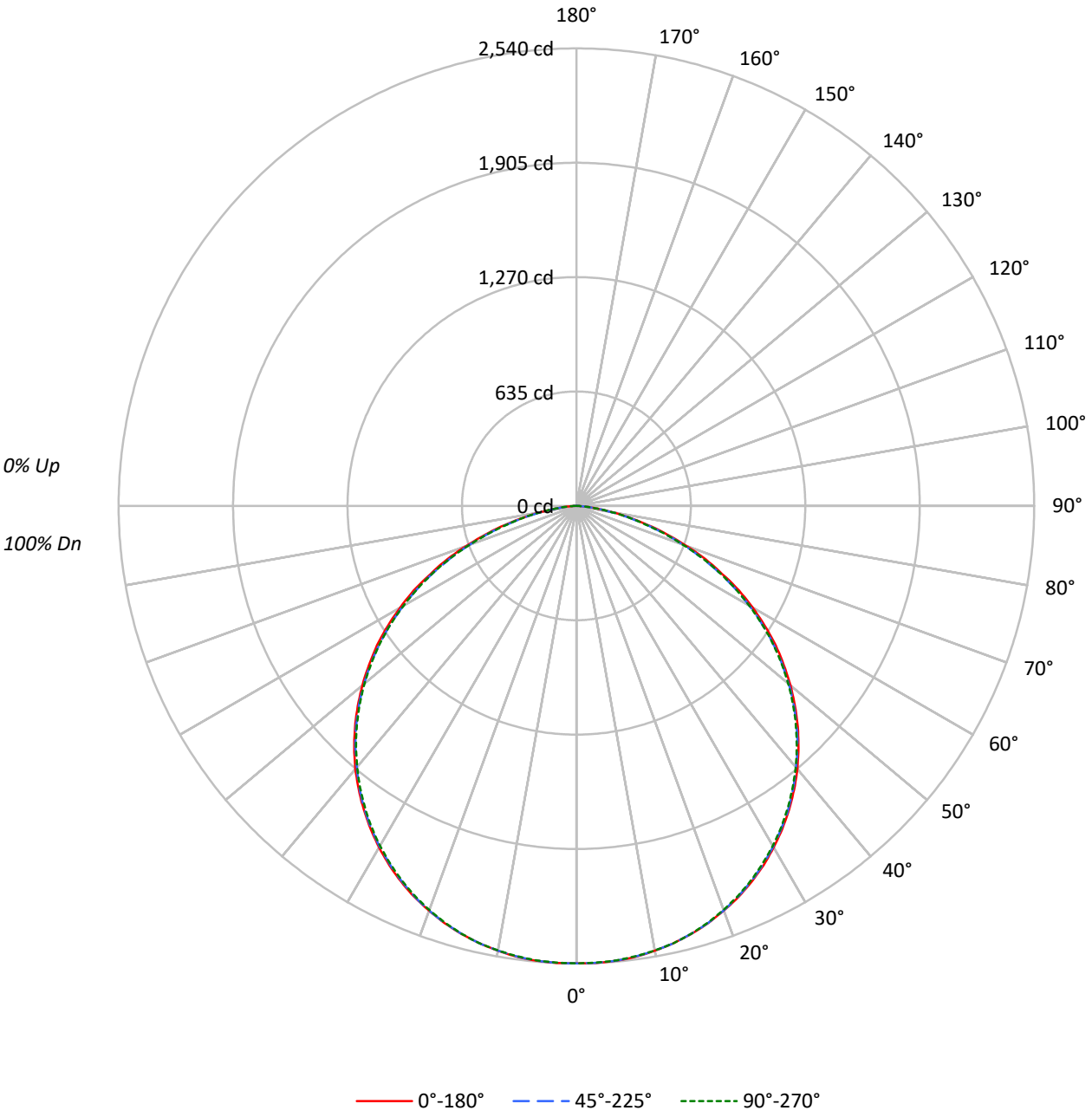
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	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	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°	3417	3417	3417
5°	3424	3424	3422
10°	3427	3425	3424
15°	3428	3426	3426
20°	3424	3423	3418
25°	3418	3411	3405
30°	3402	3393	3385
35°	3380	3371	3359
40°	3350	3329	3325
45°	3307	3288	3278
50°	3245	3220	3211
55°	3168	3123	3119
60°	3036	2982	2982
65°	2840	2774	2783
70°	2556	2477	2470
75°	2146	2061	2051
80°	1567	1490	1554
85°	886	817	831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	3.4
10°-20°	694.5	9.7
20°-30°	1059.0	14.8
30°-40°	1283.0	17.9
40°-50°	1332.7	18.6
50°-60°	1192.2	16.6
60°-70°	868.9	12.1
70°-80°	430.3	6.0
80°-90°	76.9	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°	1994.6	27.8
0°-40°	3277.6	45.7
0°-60°	5802.5	80.8
0°-90°	7178.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7178.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2535	2536	2535	2535	2534	241
15°	2461	2460	2460	2462	2460	695
25°	2302	2299	2298	2297	2294	1061
35°	2058	2055	2052	2049	2045	1287
45°	1738	1734	1728	1724	1722	1339
55°	1351	1341	1332	1332	1330	1203
65°	892	885	871	875	874	885
75°	413	406	396	404	395	440
85°	57	53	53	54	54	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.9	2539.9	2539.9	2539.9	2539.9
2.5°	2539.9	2539.0	2539.0	2539.9	2538.1
5°	2535.4	2536.3	2535.4	2535.4	2533.6
7.5°	2525.3	2524.4	2523.5	2524.4	2521.7
10°	2508.0	2508.0	2507.1	2508.0	2506.2
12.5°	2487.1	2487.1	2487.1	2488.0	2487.1
15°	2460.6	2459.7	2459.7	2461.6	2459.7
17.5°	2429.7	2428.7	2428.7	2427.8	2426.0
20°	2391.4	2391.4	2390.5	2389.6	2386.8
22.5°	2350.4	2349.5	2346.7	2346.7	2343.1
25°	2302.1	2299.3	2297.5	2296.6	2293.9
27.5°	2249.2	2245.6	2242.8	2241.0	2238.3
30°	2190.0	2186.3	2183.6	2180.9	2179.0
32.5°	2126.2	2124.4	2119.8	2118.9	2115.2
35°	2057.8	2055.1	2052.4	2048.7	2045.1
37.5°	1984.9	1982.2	1975.8	1974.0	1971.2
40°	1907.5	1903.8	1895.6	1895.6	1892.9
42.5°	1824.5	1820.9	1815.4	1811.8	1809.9
45°	1737.9	1734.3	1727.9	1724.3	1722.5
47.5°	1645.9	1643.2	1635.9	1633.1	1630.4
50°	1550.2	1546.6	1538.4	1536.5	1533.8
52.5°	1450.0	1448.1	1437.2	1436.3	1433.6
55°	1350.6	1340.6	1331.5	1331.5	1329.7
57.5°	1241.3	1234.0	1222.1	1222.1	1220.3
60°	1128.3	1121.9	1108.2	1110.0	1108.2
62.5°	1018.0	1004.3	991.5	997.0	992.5
65°	892.2	884.9	871.2	874.9	874.0
67.5°	777.4	763.7	751.0	758.2	754.6
70°	649.8	642.5	629.7	637.0	627.9
72.5°	529.5	523.1	510.4	518.6	509.4
75°	412.8	406.5	396.4	403.7	394.6
77.5°	302.6	298.0	288.9	296.2	298.0
80°	202.3	196.9	192.3	198.7	200.5
82.5°	118.5	114.8	113.0	113.9	118.5
85°	57.4	52.9	52.9	53.8	53.8
87.5°	15.5	13.7	15.5	16.4	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)