

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: P974082

Luminaire Tested: FLR2-24-30-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974082
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: FLR2-24-30-L830-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L830-CP250
Ballast/Driver: -

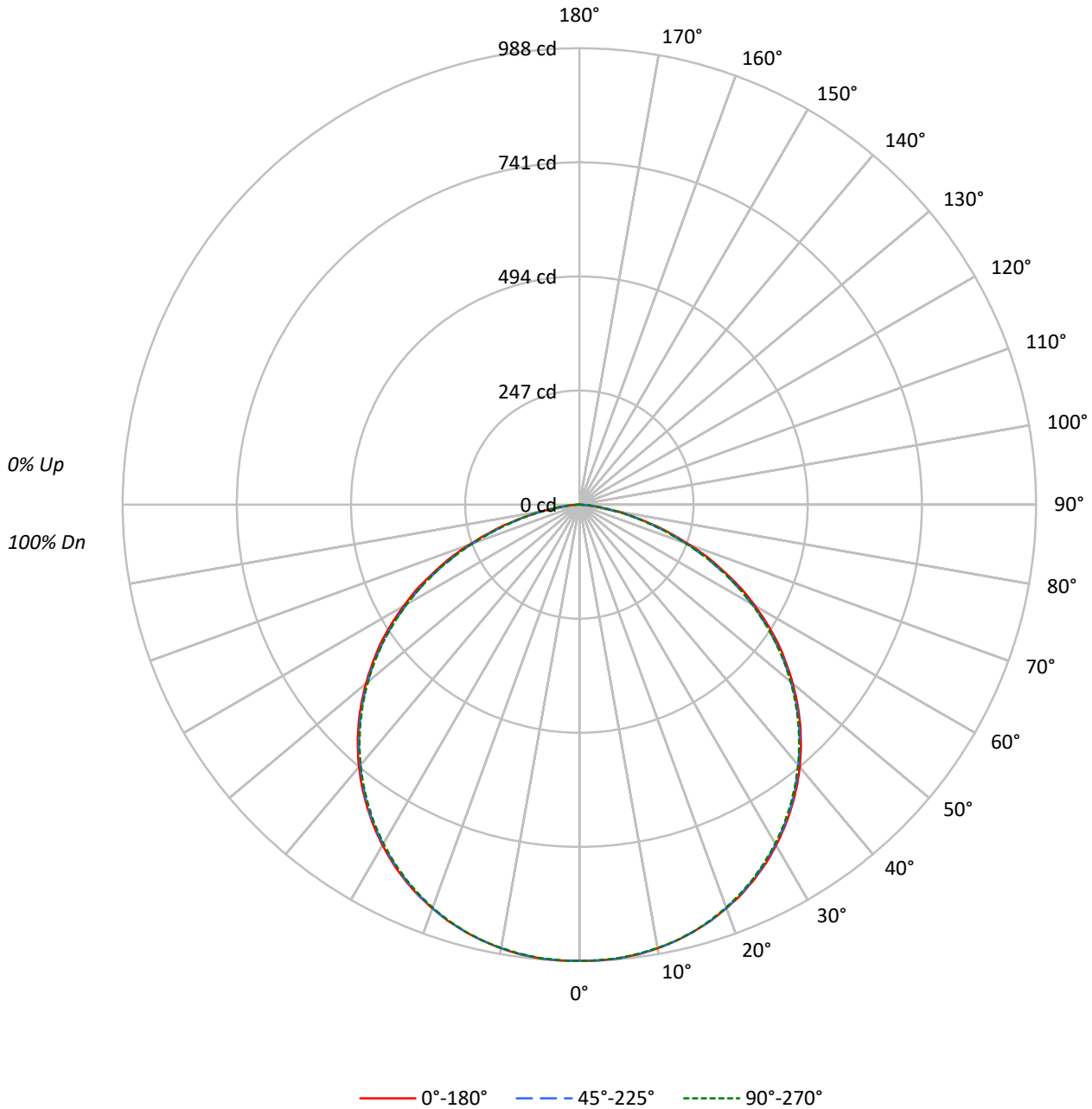
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2791.8 lumens
Efficiency: N/A
Efficacy: 117.8 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): 23.7
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				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1329	1329	1329
5°	1332	1332	1331
10°	1333	1332	1332
15°	1333	1332	1332
20°	1332	1331	1329
25°	1329	1326	1324
30°	1323	1319	1317
35°	1315	1311	1306
40°	1303	1295	1293
45°	1286	1279	1275
50°	1262	1252	1249
55°	1232	1215	1213
60°	1181	1160	1160
65°	1105	1079	1082
70°	994	963	961
75°	835	802	798
80°	610	580	604
85°	344	318	323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1286 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.4
10°-20°	270.1	9.7
20°-30°	411.8	14.8
30°-40°	499.0	17.9
40°-50°	518.3	18.6
50°-60°	463.7	16.6
60°-70°	337.9	12.1
70°-80°	167.4	6.0
80°-90°	29.9	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°	775.7	27.8
0°-40°	1274.7	45.7
0°-60°	2256.6	80.8
0°-90°	2791.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	986	986	986	986	985	94
15°	957	957	957	957	957	270
25°	895	894	894	893	892	413
35°	800	799	798	797	795	501
45°	676	674	672	671	670	521
55°	525	521	518	518	517	468
65°	347	344	339	340	340	344
75°	161	158	154	157	154	171
85°	22	21	21	21	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.8	987.8	987.8	987.8	987.8
2.5°	987.8	987.4	987.4	987.8	987.1
5°	986.0	986.4	986.0	986.0	985.3
7.5°	982.1	981.8	981.4	981.8	980.7
10°	975.4	975.4	975.0	975.4	974.7
12.5°	967.2	967.2	967.2	967.6	967.2
15°	957.0	956.6	956.6	957.3	956.6
17.5°	944.9	944.6	944.6	944.2	943.5
20°	930.0	930.0	929.7	929.3	928.3
22.5°	914.1	913.7	912.7	912.7	911.2
25°	895.3	894.2	893.5	893.2	892.1
27.5°	874.7	873.3	872.3	871.5	870.5
30°	851.7	850.3	849.2	848.2	847.4
32.5°	826.9	826.2	824.4	824.1	822.6
35°	800.3	799.2	798.2	796.8	795.3
37.5°	772.0	770.9	768.4	767.7	766.6
40°	741.8	740.4	737.2	737.2	736.2
42.5°	709.6	708.2	706.0	704.6	703.9
45°	675.9	674.5	672.0	670.6	669.9
47.5°	640.1	639.0	636.2	635.1	634.1
50°	602.9	601.5	598.3	597.6	596.5
52.5°	563.9	563.2	558.9	558.6	557.5
55°	525.3	521.4	517.8	517.8	517.1
57.5°	482.7	479.9	475.3	475.3	474.6
60°	438.8	436.3	431.0	431.7	431.0
62.5°	395.9	390.6	385.6	387.7	386.0
65°	347.0	344.2	338.8	340.3	339.9
67.5°	302.3	297.0	292.1	294.9	293.5
70°	252.7	249.9	244.9	247.7	244.2
72.5°	205.9	203.4	198.5	201.7	198.1
75°	160.6	158.1	154.2	157.0	153.5
77.5°	117.7	115.9	112.4	115.2	115.9
80°	78.7	76.6	74.8	77.3	78.0
82.5°	46.1	44.7	43.9	44.3	46.1
85°	22.3	20.6	20.6	20.9	20.9
87.5°	6.0	5.3	6.0	6.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)