

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: P974251

Luminaire Tested: FLR2-24-35-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974251
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: FLR2-24-35-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L935-CP250
Ballast/Driver: -

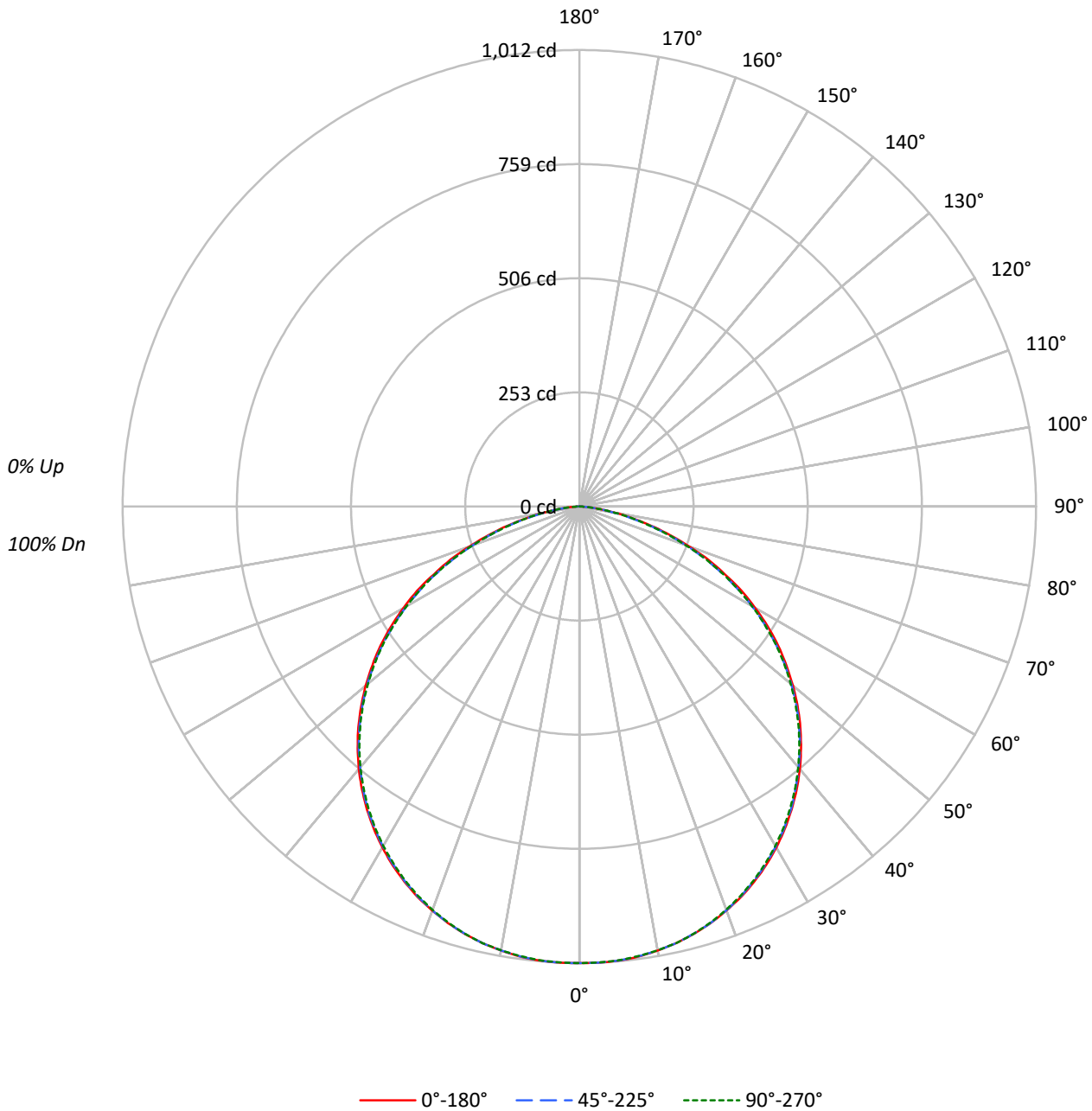
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.7 lumens
Efficiency: N/A
Efficacy: 100.8 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): 28.4
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

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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	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°	1362	1362	1362
5°	1365	1365	1364
10°	1366	1365	1365
15°	1366	1366	1366
20°	1365	1364	1362
25°	1362	1360	1358
30°	1356	1352	1350
35°	1347	1344	1339
40°	1336	1327	1325
45°	1318	1311	1306
50°	1294	1284	1280
55°	1263	1245	1244
60°	1210	1189	1189
65°	1132	1106	1109
70°	1019	987	985
75°	856	821	818
80°	625	594	619
85°	354	326	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.4
10°-20°	276.9	9.7
20°-30°	422.1	14.8
30°-40°	511.5	17.9
40°-50°	531.3	18.6
50°-60°	475.3	16.6
60°-70°	346.4	12.1
70°-80°	171.5	6.0
80°-90°	30.7	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°	795.1	27.8
0°-40°	1306.6	45.7
0°-60°	2313.1	80.8
0°-90°	2861.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1011	1011	1011	1011	1010	96
15°	981	981	981	981	981	277
25°	918	917	916	916	914	423
35°	820	819	818	817	815	513
45°	693	691	689	687	687	534
55°	538	534	531	531	530	480
65°	356	353	347	349	348	353
75°	165	162	158	161	157	175
85°	23	21	21	21	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.5	1012.5	1012.5	1012.5	1012.5
2.5°	1012.5	1012.2	1012.2	1012.5	1011.8
5°	1010.7	1011.1	1010.7	1010.7	1010.0
7.5°	1006.7	1006.3	1006.0	1006.3	1005.3
10°	999.8	999.8	999.4	999.8	999.1
12.5°	991.5	991.5	991.5	991.8	991.5
15°	980.9	980.6	980.6	981.3	980.6
17.5°	968.6	968.2	968.2	967.8	967.1
20°	953.3	953.3	952.9	952.6	951.5
22.5°	937.0	936.6	935.5	935.5	934.1
25°	917.7	916.6	915.9	915.5	914.4
27.5°	896.6	895.2	894.1	893.4	892.3
30°	873.0	871.6	870.5	869.4	868.7
32.5°	847.6	846.9	845.0	844.7	843.2
35°	820.3	819.2	818.2	816.7	815.3
37.5°	791.3	790.2	787.6	786.9	785.8
40°	760.4	758.9	755.7	755.7	754.6
42.5°	727.3	725.9	723.7	722.2	721.5
45°	692.8	691.4	688.8	687.4	686.6
47.5°	656.1	655.0	652.1	651.0	649.9
50°	618.0	616.5	613.3	612.5	611.4
52.5°	578.0	577.3	572.9	572.6	571.5
55°	538.4	534.4	530.8	530.8	530.1
57.5°	494.8	491.9	487.2	487.2	486.5
60°	449.8	447.2	441.8	442.5	441.8
62.5°	405.8	400.4	395.3	397.5	395.6
65°	355.7	352.8	347.3	348.8	348.4
67.5°	309.9	304.4	299.4	302.3	300.8
70°	259.0	256.1	251.0	253.9	250.3
72.5°	211.1	208.5	203.4	206.7	203.1
75°	164.6	162.0	158.0	160.9	157.3
77.5°	120.6	118.8	115.2	118.1	118.8
80°	80.7	78.5	76.7	79.2	79.9
82.5°	47.2	45.8	45.0	45.4	47.2
85°	22.9	21.1	21.1	21.4	21.4
87.5°	6.2	5.4	6.2	6.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)