

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: P974114

Luminaire Tested: FLR2-24-30-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974114
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-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L930-CP080
Ballast/Driver: -

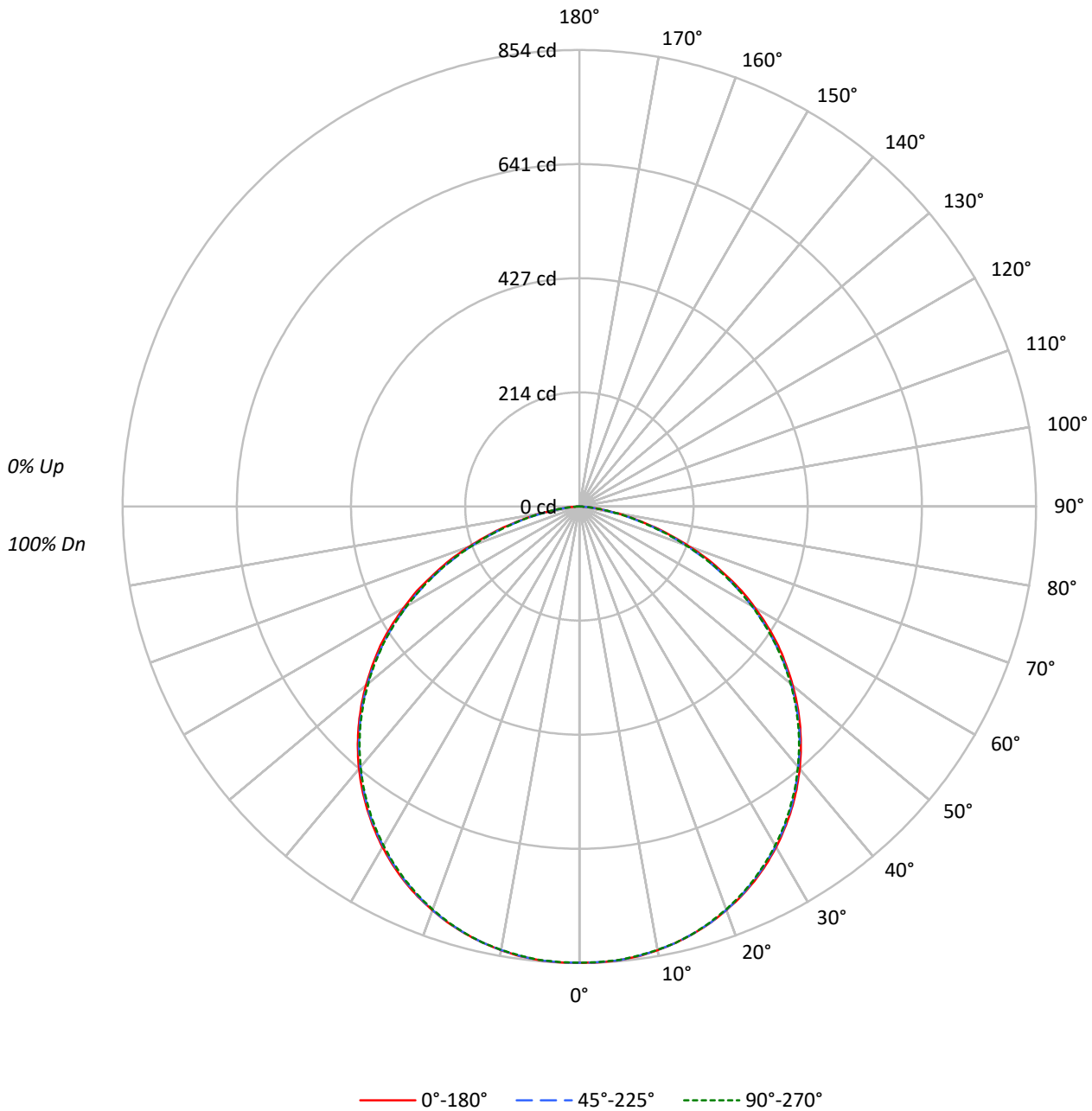
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2412.9 lumens
Efficiency: N/A
Efficacy: 101.8 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										
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	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	100	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1149	1149	1149
5°	1151	1151	1150
10°	1152	1151	1151
15°	1152	1152	1152
20°	1151	1150	1149
25°	1149	1146	1145
30°	1144	1140	1138
35°	1136	1133	1129
40°	1126	1119	1117
45°	1111	1105	1102
50°	1091	1082	1079
55°	1065	1050	1048
60°	1020	1002	1002
65°	955	932	935
70°	859	833	830
75°	722	692	689
80°	527	501	522
85°	298	275	279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1111 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.4
10°-20°	233.4	9.7
20°-30°	355.9	14.8
30°-40°	431.2	17.9
40°-50°	447.9	18.6
50°-60°	400.7	16.6
60°-70°	292.1	12.1
70°-80°	144.6	6.0
80°-90°	25.9	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°	670.4	27.8
0°-40°	1101.6	45.7
0°-60°	1950.3	80.8
0°-90°	2412.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	852	852	852	852	852	81
15°	827	827	827	827	827	234
25°	774	773	772	772	771	357
35°	692	691	690	689	687	433
45°	584	583	581	580	579	450
55°	454	451	448	448	447	404
65°	300	297	293	294	294	297
75°	139	137	133	136	133	148
85°	19	18	18	18	18	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.7	853.7	853.7	853.7	853.7
2.5°	853.7	853.4	853.4	853.7	853.1
5°	852.2	852.5	852.2	852.2	851.6
7.5°	848.8	848.5	848.2	848.5	847.6
10°	843.0	843.0	842.7	843.0	842.4
12.5°	835.9	835.9	835.9	836.2	835.9
15°	827.1	826.7	826.7	827.4	826.7
17.5°	816.6	816.3	816.3	816.0	815.4
20°	803.8	803.8	803.5	803.2	802.2
22.5°	790.0	789.7	788.8	788.8	787.5
25°	773.8	772.8	772.2	771.9	771.0
27.5°	756.0	754.8	753.8	753.2	752.3
30°	736.1	734.9	733.9	733.0	732.4
32.5°	714.6	714.0	712.5	712.2	711.0
35°	691.7	690.7	689.8	688.6	687.4
37.5°	667.2	666.2	664.1	663.5	662.6
40°	641.1	639.9	637.1	637.1	636.2
42.5°	613.2	612.0	610.2	609.0	608.3
45°	584.1	582.9	580.8	579.6	578.9
47.5°	553.2	552.3	549.8	548.9	548.0
50°	521.0	519.8	517.1	516.5	515.5
52.5°	487.4	486.7	483.1	482.8	481.8
55°	454.0	450.6	447.5	447.5	446.9
57.5°	417.2	414.8	410.8	410.8	410.2
60°	379.2	377.1	372.5	373.1	372.5
62.5°	342.2	337.6	333.3	335.1	333.6
65°	299.9	297.4	292.8	294.1	293.8
67.5°	261.3	256.7	252.4	254.9	253.6
70°	218.4	216.0	211.7	214.1	211.1
72.5°	178.0	175.8	171.5	174.3	171.2
75°	138.8	136.6	133.2	135.7	132.6
77.5°	101.7	100.2	97.1	99.6	100.2
80°	68.0	66.2	64.6	66.8	67.4
82.5°	39.8	38.6	38.0	38.3	39.8
85°	19.3	17.8	17.8	18.1	18.1
87.5°	5.2	4.6	5.2	5.5	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)