

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: P974226

Luminaire Tested: FLR2-24-30-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974226
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L935-CP080
Ballast/Driver: -

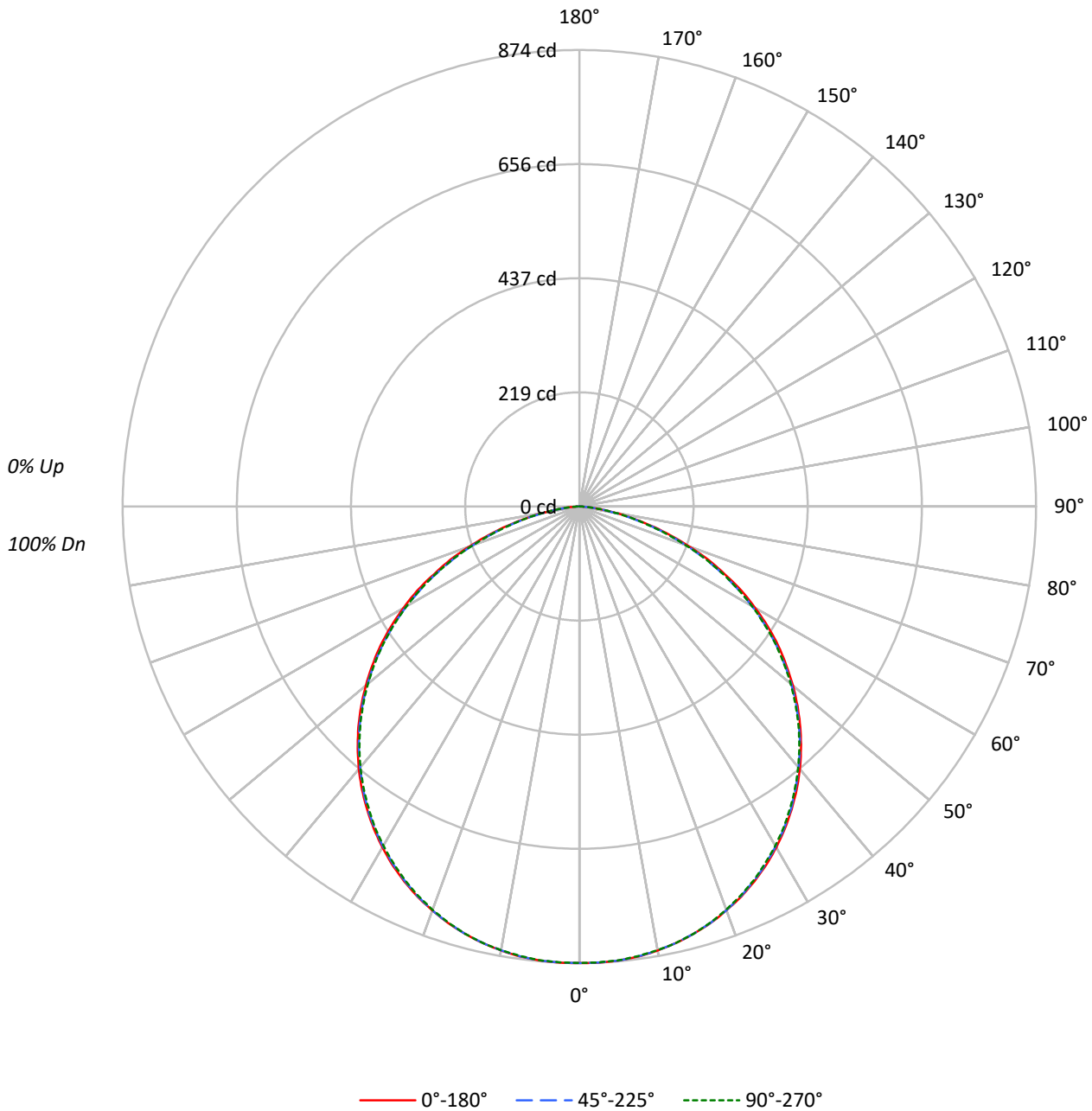
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2471.0 lumens
Efficiency: N/A
Efficacy: 104.3 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	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°	1176	1176	1176
5°	1179	1179	1178
10°	1179	1179	1179
15°	1180	1179	1179
20°	1179	1178	1176
25°	1176	1174	1172
30°	1171	1168	1165
35°	1163	1160	1156
40°	1153	1146	1144
45°	1138	1132	1128
50°	1117	1108	1105
55°	1091	1075	1074
60°	1045	1027	1027
65°	978	955	958
70°	880	853	850
75°	739	710	706
80°	539	513	535
85°	306	281	286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.4
10°-20°	239.1	9.7
20°-30°	364.5	14.8
30°-40°	441.6	17.9
40°-50°	458.7	18.6
50°-60°	410.4	16.6
60°-70°	299.1	12.1
70°-80°	148.1	6.0
80°-90°	26.5	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°	686.6	27.8
0°-40°	1128.2	45.7
0°-60°	1997.3	80.8
0°-90°	2471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	873	873	873	873	872	83
15°	847	847	847	847	847	239
25°	792	792	791	790	790	365
35°	708	707	706	705	704	443
45°	598	597	595	594	593	461
55°	465	461	458	458	458	414
65°	307	305	300	301	301	304
75°	142	140	136	139	136	152
85°	20	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°	874.3	874.3	874.3	874.3	874.3
2.5°	874.3	874.0	874.0	874.3	873.6
5°	872.7	873.0	872.7	872.7	872.1
7.5°	869.3	868.9	868.6	868.9	868.0
10°	863.3	863.3	863.0	863.3	862.7
12.5°	856.1	856.1	856.1	856.4	856.1
15°	847.0	846.7	846.7	847.3	846.7
17.5°	836.3	836.0	836.0	835.7	835.1
20°	823.1	823.1	822.8	822.5	821.6
22.5°	809.0	808.7	807.8	807.8	806.5
25°	792.4	791.5	790.8	790.5	789.6
27.5°	774.2	773.0	772.0	771.4	770.4
30°	753.8	752.6	751.6	750.7	750.1
32.5°	731.9	731.2	729.7	729.3	728.1
35°	708.3	707.4	706.4	705.2	703.9
37.5°	683.2	682.3	680.1	679.5	678.5
40°	656.6	655.3	652.5	652.5	651.6
42.5°	628.0	626.8	624.9	623.6	623.0
45°	598.2	597.0	594.8	593.5	592.9
47.5°	566.5	565.6	563.1	562.1	561.2
50°	533.6	532.3	529.5	528.9	528.0
52.5°	499.1	498.5	494.7	494.4	493.4
55°	464.9	461.4	458.3	458.3	457.7
57.5°	427.3	424.7	420.7	420.7	420.0
60°	388.4	386.2	381.5	382.1	381.5
62.5°	350.4	345.7	341.3	343.2	341.6
65°	307.1	304.6	299.9	301.2	300.8
67.5°	267.6	262.9	258.5	261.0	259.7
70°	223.7	221.2	216.8	219.3	216.1
72.5°	182.3	180.1	175.7	178.5	175.4
75°	142.1	139.9	136.5	139.0	135.8
77.5°	104.1	102.6	99.4	102.0	102.6
80°	69.6	67.8	66.2	68.4	69.0
82.5°	40.8	39.5	38.9	39.2	40.8
85°	19.8	18.2	18.2	18.5	18.5
87.5°	5.3	4.7	5.3	5.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)