

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: P974378

Luminaire Tested: FLR2-24-30-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974378
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-L940-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CA080
Ballast/Driver: -

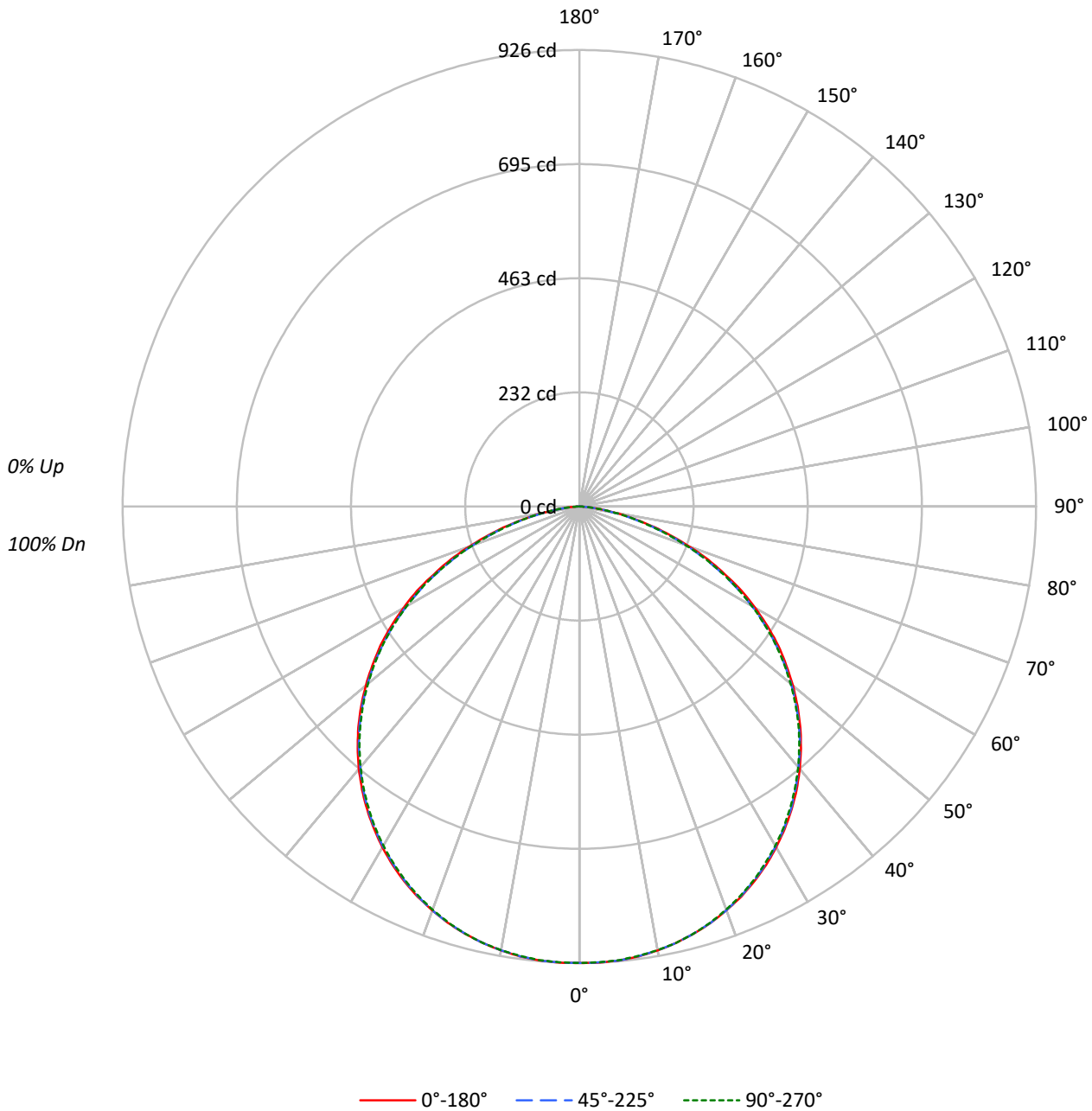
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.6 lumens
Efficiency: N/A
Efficacy: 110.4 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°	1246	1246	1246
5°	1249	1249	1248
10°	1249	1249	1249
15°	1250	1249	1249
20°	1249	1248	1246
25°	1246	1244	1242
30°	1241	1237	1235
35°	1233	1229	1225
40°	1222	1214	1212
45°	1206	1199	1195
50°	1183	1174	1171
55°	1155	1139	1137
60°	1107	1087	1087
65°	1036	1011	1015
70°	932	903	901
75°	782	752	748
80°	572	543	566
85°	323	298	303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.4
10°-20°	253.3	9.7
20°-30°	386.1	14.8
30°-40°	467.8	17.9
40°-50°	486.0	18.6
50°-60°	434.7	16.6
60°-70°	316.8	12.1
70°-80°	156.9	6.0
80°-90°	28.0	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°	727.3	27.8
0°-40°	1195.1	45.7
0°-60°	2115.8	80.8
0°-90°	2617.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	924	925	924	924	924	88
15°	897	897	897	898	897	253
25°	839	838	838	837	836	387
35°	750	749	748	747	746	469
45°	634	632	630	629	628	488
55°	492	489	486	486	485	439
65°	325	323	318	319	319	323
75°	150	148	145	147	144	160
85°	21	19	19	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.2	926.2	926.2	926.2	926.2
2.5°	926.2	925.8	925.8	926.2	925.5
5°	924.5	924.8	924.5	924.5	923.8
7.5°	920.8	920.5	920.2	920.5	919.5
10°	914.5	914.5	914.2	914.5	913.9
12.5°	906.9	906.9	906.9	907.2	906.9
15°	897.2	896.9	896.9	897.6	896.9
17.5°	885.9	885.6	885.6	885.3	884.6
20°	872.0	872.0	871.7	871.3	870.3
22.5°	857.0	856.7	855.7	855.7	854.4
25°	839.4	838.4	837.8	837.4	836.4
27.5°	820.1	818.8	817.8	817.2	816.2
30°	798.5	797.2	796.2	795.2	794.6
32.5°	775.3	774.6	773.0	772.6	771.3
35°	750.4	749.4	748.4	747.0	745.7
37.5°	723.8	722.8	720.5	719.8	718.8
40°	695.5	694.2	691.2	691.2	690.2
42.5°	665.3	664.0	662.0	660.6	660.0
45°	633.7	632.4	630.1	628.7	628.1
47.5°	600.2	599.2	596.5	595.5	594.5
50°	565.3	563.9	560.9	560.3	559.3
52.5°	528.7	528.0	524.1	523.7	522.7
55°	492.5	488.8	485.5	485.5	484.8
57.5°	452.6	449.9	445.6	445.6	445.0
60°	411.4	409.1	404.1	404.8	404.1
62.5°	371.2	366.2	361.6	363.5	361.9
65°	325.3	322.7	317.7	319.0	318.7
67.5°	283.5	278.5	273.8	276.5	275.2
70°	236.9	234.3	229.6	232.3	229.0
72.5°	193.1	190.7	186.1	189.1	185.8
75°	150.5	148.2	144.6	147.2	143.9
77.5°	110.3	108.7	105.3	108.0	108.7
80°	73.8	71.8	70.1	72.4	73.1
82.5°	43.2	41.9	41.2	41.5	43.2
85°	20.9	19.3	19.3	19.6	19.6
87.5°	5.6	5.0	5.6	6.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)