

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: P973539

Luminaire Tested: FLR2-22-35-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

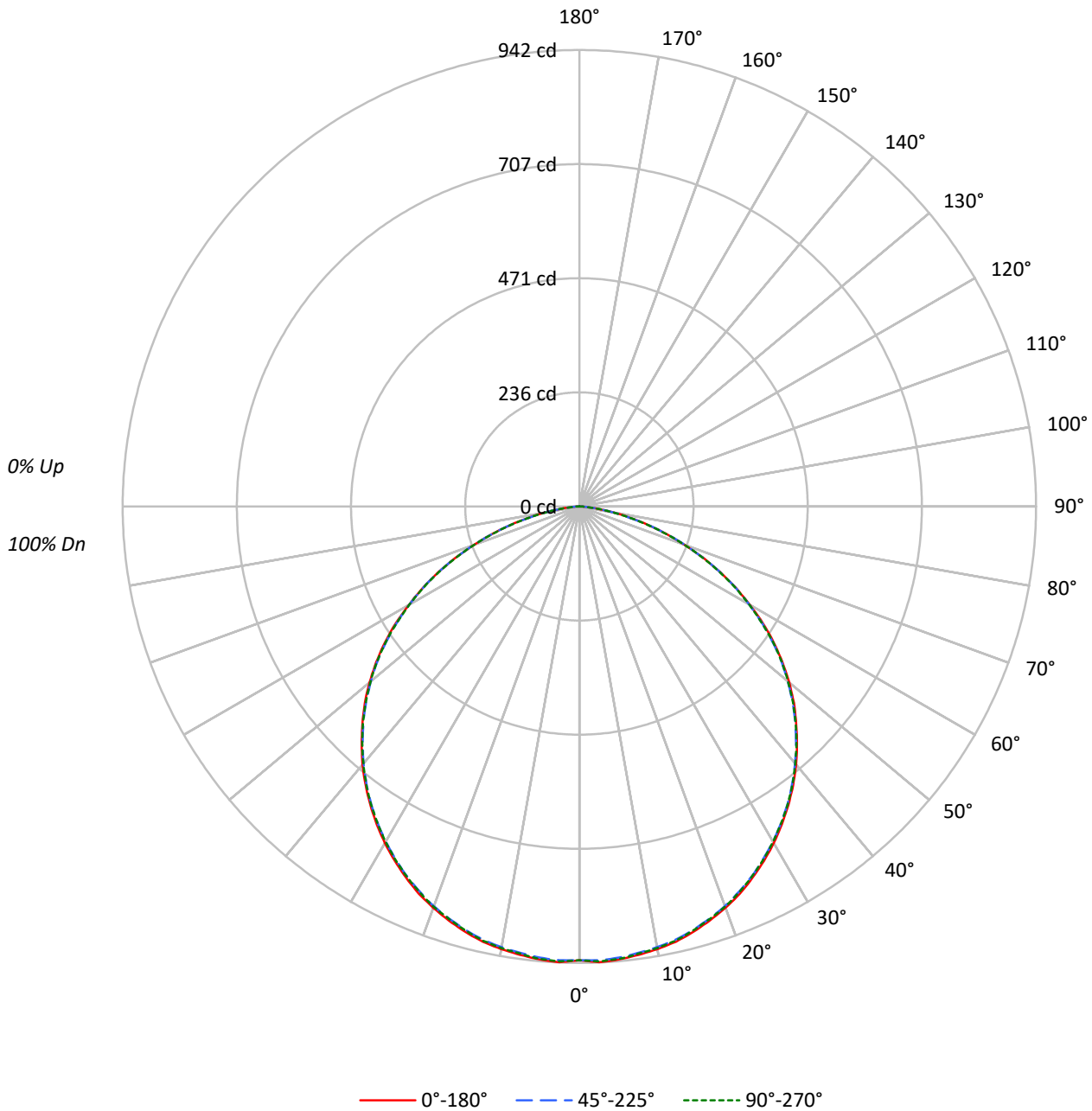
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2618.4 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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									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													
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71													
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60													
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34													
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30													
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27													
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2520	2520	2520
5°	2535	2525	2532
10°	2535	2524	2528
15°	2533	2522	2525
20°	2524	2514	2517
25°	2510	2500	2502
30°	2492	2482	2483
35°	2470	2460	2462
40°	2444	2432	2434
45°	2408	2397	2401
50°	2365	2349	2353
55°	2298	2279	2287
60°	2185	2175	2175
65°	2040	2036	2029
70°	1806	1815	1811
75°	1521	1510	1497
80°	1094	1075	1066
85°	571	571	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2408 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.4
10°-20°	255.0	9.7
20°-30°	387.5	14.8
30°-40°	468.3	17.9
40°-50°	486.1	18.6
50°-60°	434.6	16.6
60°-70°	316.0	12.1
70°-80°	155.4	5.9
80°-90°	26.9	1.0
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°	731.1	27.9
0°-40°	1199.4	45.8
0°-60°	2120.1	81.0
0°-90°	2618.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	939	928	935	931	938	89
15°	909	899	905	903	906	257
25°	846	836	842	840	843	390
35°	752	747	749	750	750	470
45°	633	630	630	631	631	488
55°	490	487	486	487	488	437
65°	320	322	320	320	319	316
75°	146	148	145	146	144	155
85°	18	19	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°	936.3	936.3	936.3	936.3	936.3
2.5°	941.5	930.5	937.5	933.4	939.8
5°	938.6	927.6	934.6	931.1	937.5
7.5°	933.4	922.4	929.4	925.9	931.1
10°	927.6	916.1	923.6	920.1	925.3
12.5°	920.1	909.1	916.1	913.2	917.8
15°	909.1	898.7	905.1	902.8	906.2
17.5°	895.8	885.4	891.8	890.0	892.9
20°	881.4	871.5	877.9	876.2	879.0
22.5°	865.2	854.8	860.5	859.4	861.7
25°	845.5	836.2	842.0	840.3	842.6
27.5°	824.7	816.0	820.6	820.6	821.8
30°	802.1	794.0	798.7	798.7	799.2
32.5°	777.8	771.5	774.4	774.9	774.9
35°	751.8	746.6	748.9	749.5	749.5
37.5°	724.6	719.4	721.2	722.3	722.3
40°	695.7	691.1	692.2	693.4	692.8
42.5°	664.5	661.0	661.6	662.8	662.8
45°	632.7	629.8	629.8	630.9	630.9
47.5°	600.3	597.4	596.2	597.4	597.4
50°	565.0	562.1	561.0	562.1	562.1
52.5°	528.0	525.1	525.1	525.1	525.7
55°	489.8	486.9	485.8	486.9	487.5
57.5°	449.4	448.2	446.5	447.0	445.3
60°	406.0	406.0	404.2	405.4	404.2
62.5°	363.8	364.9	363.2	363.2	362.0
65°	320.4	321.5	319.8	319.8	318.7
67.5°	275.9	277.6	275.3	275.3	274.1
70°	229.6	233.1	230.7	231.3	230.2
72.5°	188.0	189.7	187.4	187.4	186.2
75°	146.3	147.5	145.2	145.7	144.0
77.5°	105.3	107.0	104.7	105.3	104.7
80°	70.6	71.1	69.4	70.0	68.8
82.5°	41.1	41.6	41.1	40.5	39.9
85°	18.5	19.1	18.5	18.5	17.9
87.5°	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)