

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: P973535

Luminaire Tested: FLR2-22-35-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973535
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

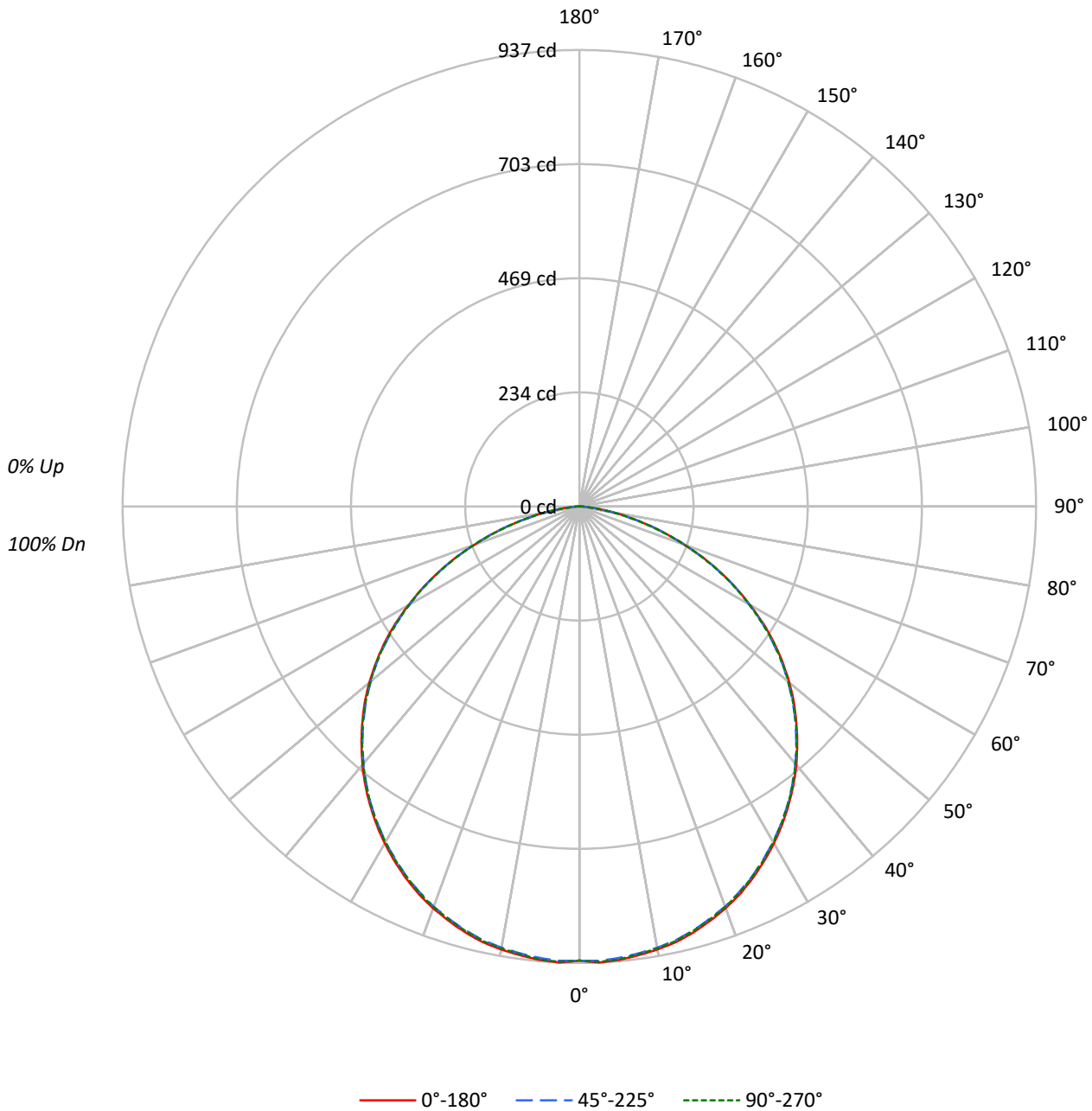
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2606.8 lumens
Efficiency: N/A
Efficacy: 93.4 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									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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	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	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2524	2513	2521
10°	2523	2513	2517
15°	2522	2510	2513
20°	2513	2503	2506
25°	2499	2489	2491
30°	2481	2471	2472
35°	2459	2449	2451
40°	2433	2421	2423
45°	2397	2386	2391
50°	2355	2338	2343
55°	2288	2269	2277
60°	2175	2166	2166
65°	2031	2027	2020
70°	1799	1807	1803
75°	1515	1502	1491
80°	1088	1071	1062
85°	568	568	550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.4
10°-20°	253.8	9.7
20°-30°	385.7	14.8
30°-40°	466.3	17.9
40°-50°	484.0	18.6
50°-60°	432.7	16.6
60°-70°	314.6	12.1
70°-80°	154.7	5.9
80°-90°	26.8	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°	727.9	27.9
0°-40°	1194.1	45.8
0°-60°	2110.7	81.0
0°-90°	2606.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	934	924	930	927	933	89
15°	905	895	901	899	902	255
25°	842	833	838	837	839	388
35°	748	743	746	746	746	468
45°	630	627	627	628	628	486
55°	488	485	484	485	485	435
65°	319	320	318	318	317	315
75°	146	147	144	145	143	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°	932.2	932.2	932.2	932.2	932.2
2.5°	937.3	926.4	933.3	929.3	935.6
5°	934.5	923.5	930.4	927.0	933.3
7.5°	929.3	918.3	925.3	921.8	927.0
10°	923.5	912.0	919.5	916.0	921.2
12.5°	916.0	905.1	912.0	909.1	913.7
15°	905.1	894.7	901.1	898.8	902.2
17.5°	891.9	881.5	887.8	886.1	889.0
20°	877.5	867.7	874.0	872.3	875.2
22.5°	861.3	851.0	856.7	855.6	857.9
25°	841.8	832.6	838.3	836.6	838.9
27.5°	821.0	812.4	817.0	817.0	818.2
30°	798.6	790.5	795.1	795.1	795.7
32.5°	774.4	768.1	771.0	771.5	771.5
35°	748.5	743.3	745.6	746.2	746.2
37.5°	721.4	716.3	718.0	719.1	719.1
40°	692.6	688.0	689.2	690.3	689.8
42.5°	661.6	658.1	658.7	659.8	659.8
45°	629.9	627.0	627.0	628.2	628.2
47.5°	597.6	594.8	593.6	594.8	594.8
50°	562.5	559.6	558.5	559.6	559.6
52.5°	525.7	522.8	522.8	522.8	523.4
55°	487.7	484.8	483.6	484.8	485.4
57.5°	447.4	446.2	444.5	445.1	443.3
60°	404.2	404.2	402.5	403.6	402.5
62.5°	362.2	363.3	361.6	361.6	360.4
65°	319.0	320.1	318.4	318.4	317.2
67.5°	274.6	276.4	274.1	274.1	272.9
70°	228.6	232.0	229.7	230.3	229.2
72.5°	187.1	188.9	186.5	186.5	185.4
75°	145.7	146.8	144.5	145.1	143.4
77.5°	104.8	106.5	104.2	104.8	104.2
80°	70.2	70.8	69.1	69.7	68.5
82.5°	40.9	41.5	40.9	40.3	39.7
85°	18.4	19.0	18.4	18.4	17.8
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)