

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: P973583

Luminaire Tested: FLR2-22-35-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973583
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

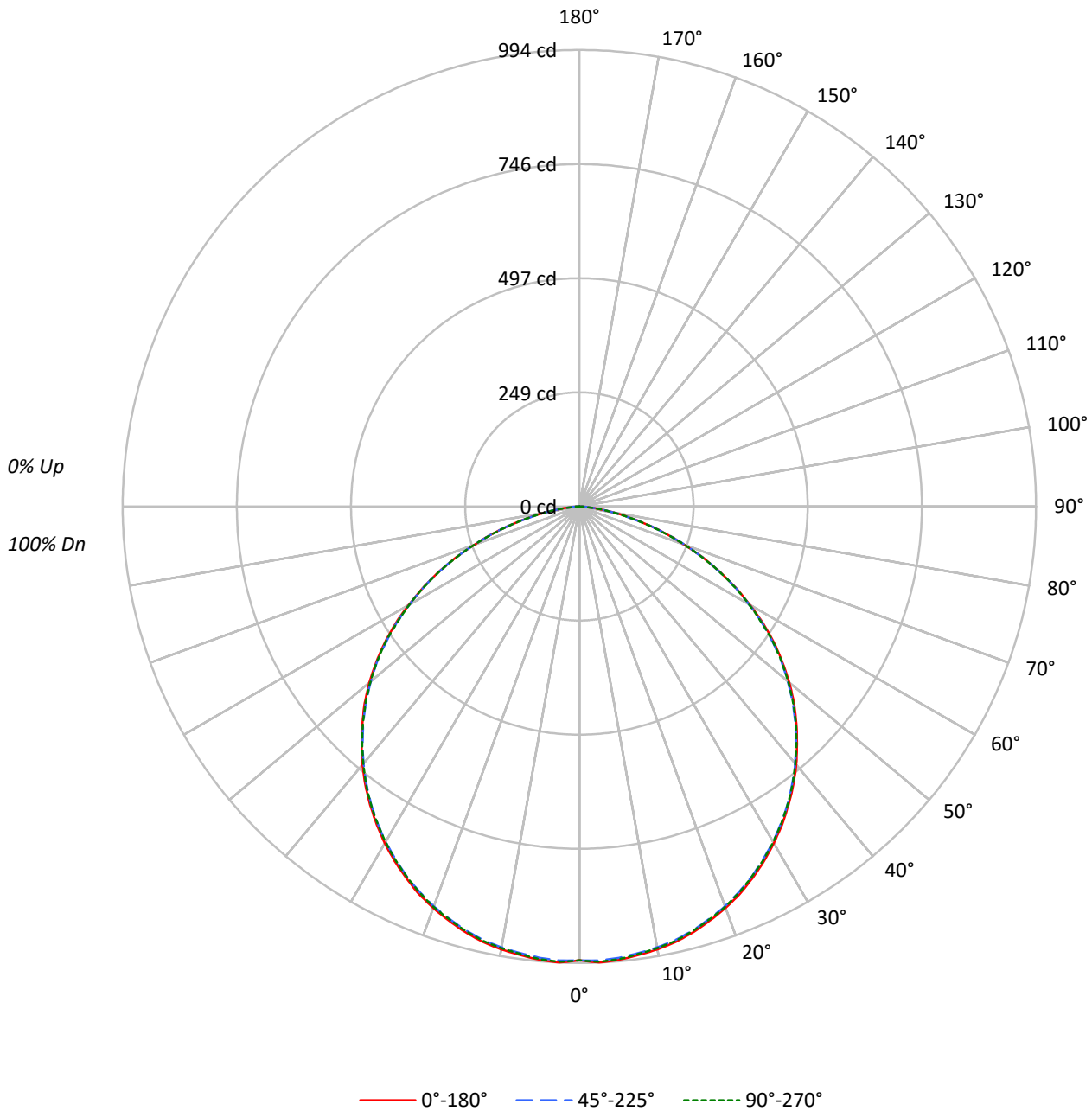
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2764.2 lumens
Efficiency: N/A
Efficacy: 99.1 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					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°	2660	2660	2660
5°	2677	2665	2673
10°	2676	2664	2669
15°	2674	2662	2665
20°	2664	2654	2657
25°	2650	2639	2641
30°	2631	2620	2622
35°	2607	2597	2599
40°	2580	2567	2569
45°	2542	2530	2535
50°	2497	2479	2484
55°	2426	2406	2415
60°	2307	2297	2297
65°	2153	2150	2142
70°	1907	1917	1912
75°	1606	1593	1580
80°	1155	1136	1127
85°	602	602	584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.4
10°-20°	269.2	9.7
20°-30°	409.0	14.8
30°-40°	494.4	17.9
40°-50°	513.2	18.6
50°-60°	458.8	16.6
60°-70°	333.6	12.1
70°-80°	164.0	5.9
80°-90°	28.4	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°	771.8	27.9
0°-40°	1266.2	45.8
0°-60°	2238.1	81.0
0°-90°	2764.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	991	979	987	983	990	94
15°	960	949	956	953	957	271
25°	893	883	889	887	890	411
35°	794	788	791	791	791	497
45°	668	665	665	666	666	515
55°	517	514	513	514	515	461
65°	338	340	338	338	336	334
75°	154	156	153	154	152	164
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.4	988.4	988.4	988.4	988.4
2.5°	993.9	982.3	989.7	985.4	992.1
5°	990.9	979.3	986.6	982.9	989.7
7.5°	985.4	973.8	981.1	977.4	982.9
10°	979.3	967.1	975.0	971.3	976.8
12.5°	971.3	959.7	967.1	964.0	968.9
15°	959.7	948.8	955.5	953.0	956.7
17.5°	945.7	934.7	941.4	939.6	942.6
20°	930.4	920.1	926.8	924.9	928.0
22.5°	913.3	902.4	908.5	907.2	909.7
25°	892.6	882.8	888.9	887.1	889.5
27.5°	870.6	861.4	866.3	866.3	867.6
30°	846.8	838.2	843.1	843.1	843.7
32.5°	821.2	814.4	817.5	818.1	818.1
35°	793.7	788.2	790.6	791.2	791.2
37.5°	765.0	759.5	761.3	762.5	762.5
40°	734.5	729.6	730.8	732.0	731.4
42.5°	701.5	697.8	698.4	699.7	699.7
45°	667.9	664.9	664.9	666.1	666.1
47.5°	633.7	630.7	629.4	630.7	630.7
50°	596.5	593.4	592.2	593.4	593.4
52.5°	557.4	554.4	554.4	554.4	555.0
55°	517.1	514.1	512.8	514.1	514.7
57.5°	474.4	473.2	471.3	471.9	470.1
60°	428.6	428.6	426.8	428.0	426.8
62.5°	384.0	385.2	383.4	383.4	382.2
65°	338.2	339.5	337.6	337.6	336.4
67.5°	291.2	293.1	290.6	290.6	289.4
70°	242.4	246.0	243.6	244.2	243.0
72.5°	198.4	200.3	197.8	197.8	196.6
75°	154.5	155.7	153.2	153.9	152.0
77.5°	111.1	112.9	110.5	111.1	110.5
80°	74.5	75.1	73.3	73.9	72.7
82.5°	43.3	44.0	43.3	42.7	42.1
85°	19.5	20.1	19.5	19.5	18.9
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)