

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: P973591

Luminaire Tested: FLR2-22-35-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973591
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

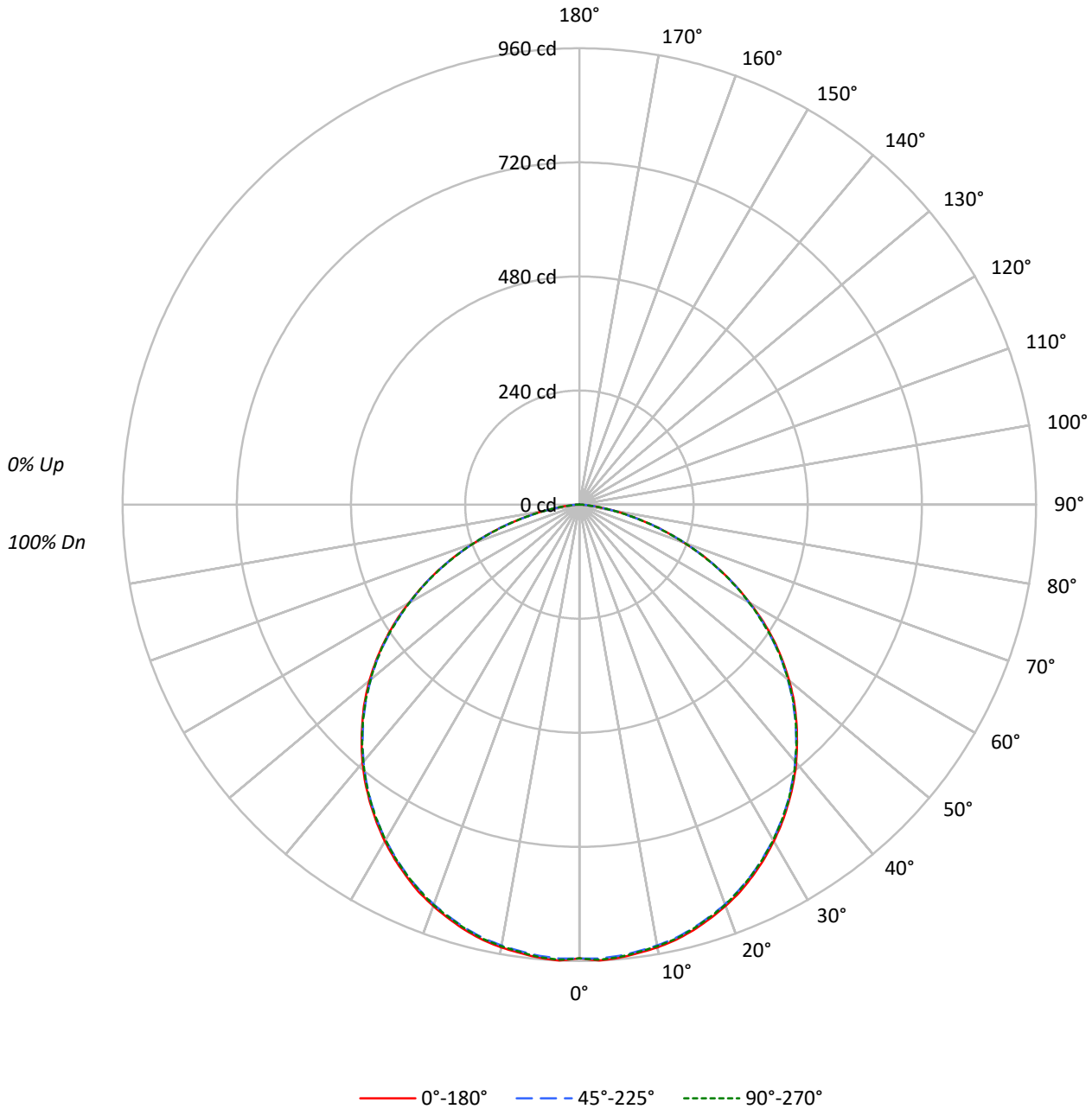
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2669.7 lumens
Efficiency: N/A
Efficacy: 95.7 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	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°	2569	2569	2569
5°	2585	2574	2582
10°	2584	2573	2578
15°	2582	2571	2574
20°	2573	2563	2567
25°	2560	2549	2551
30°	2541	2530	2532
35°	2518	2508	2510
40°	2492	2479	2481
45°	2455	2444	2448
50°	2412	2395	2399
55°	2343	2324	2332
60°	2228	2218	2218
65°	2080	2076	2069
70°	1842	1851	1847
75°	1551	1539	1526
80°	1114	1097	1088
85°	584	584	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.4
10°-20°	260.0	9.7
20°-30°	395.0	14.8
30°-40°	477.5	17.9
40°-50°	495.6	18.6
50°-60°	443.1	16.6
60°-70°	322.2	12.1
70°-80°	158.4	5.9
80°-90°	27.5	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°	745.4	27.9
0°-40°	1222.9	45.8
0°-60°	2161.6	81.0
0°-90°	2669.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	957	946	953	949	956	91
15°	927	916	923	920	924	262
25°	862	853	858	857	859	397
35°	766	761	764	764	764	480
45°	645	642	642	643	643	498
55°	499	496	495	496	497	445
65°	327	328	326	326	325	322
75°	149	150	148	149	147	158
85°	19	20	19	19	18	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.6	954.6	954.6	954.6	954.6
2.5°	959.9	948.7	955.8	951.7	958.2
5°	957.0	945.8	952.9	949.3	955.8
7.5°	951.7	940.5	947.6	944.0	949.3
10°	945.8	934.0	941.7	938.1	943.4
12.5°	938.1	926.9	934.0	931.0	935.8
15°	926.9	916.3	922.8	920.4	924.0
17.5°	913.4	902.7	909.2	907.5	910.4
20°	898.6	888.6	895.1	893.3	896.3
22.5°	882.1	871.5	877.4	876.2	878.6
25°	862.1	852.6	858.5	856.7	859.1
27.5°	840.8	832.0	836.7	836.7	837.9
30°	817.8	809.6	814.3	814.3	814.9
32.5°	793.1	786.6	789.5	790.1	790.1
35°	766.5	761.2	763.6	764.2	764.2
37.5°	738.8	733.5	735.3	736.5	736.5
40°	709.3	704.6	705.8	707.0	706.4
42.5°	677.5	674.0	674.5	675.7	675.7
45°	645.1	642.1	642.1	643.3	643.3
47.5°	612.0	609.1	607.9	609.1	609.1
50°	576.1	573.1	572.0	573.1	573.1
52.5°	538.3	535.4	535.4	535.4	536.0
55°	499.4	496.5	495.3	496.5	497.1
57.5°	458.2	457.0	455.2	455.8	454.0
60°	413.9	413.9	412.2	413.3	412.2
62.5°	370.9	372.1	370.3	370.3	369.1
65°	326.7	327.8	326.1	326.1	324.9
67.5°	281.3	283.0	280.7	280.7	279.5
70°	234.1	237.6	235.3	235.9	234.7
72.5°	191.6	193.4	191.0	191.0	189.9
75°	149.2	150.4	148.0	148.6	146.8
77.5°	107.3	109.1	106.7	107.3	106.7
80°	71.9	72.5	70.8	71.3	70.2
82.5°	41.9	42.5	41.9	41.3	40.7
85°	18.9	19.5	18.9	18.9	18.3
87.5°	4.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)