

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: P973595

Luminaire Tested: FLR2-22-35-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973595
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

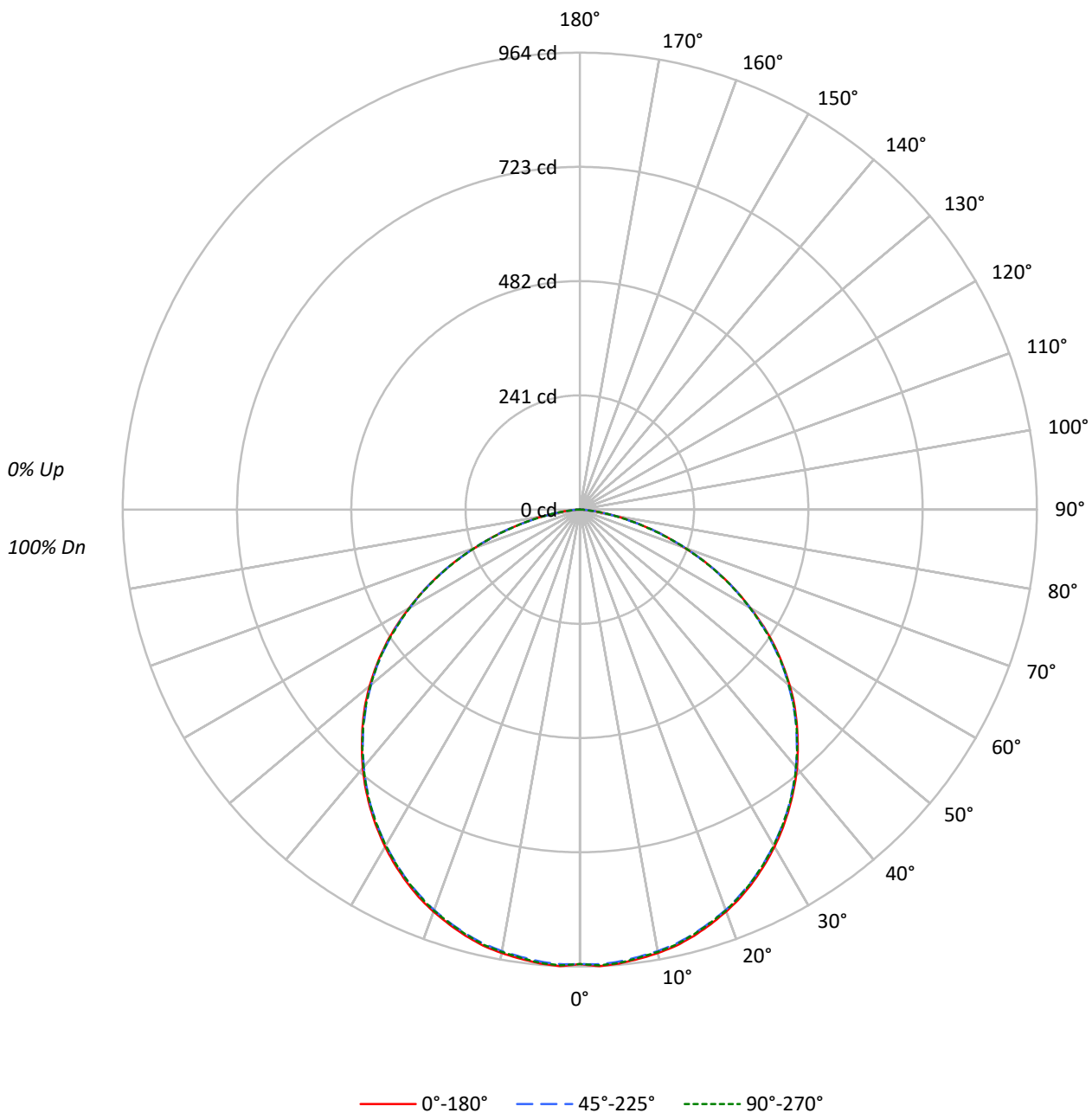
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2681.5 lumens
Efficiency: N/A
Efficacy: 96.1 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°	2580	2580	2580
5°	2596	2585	2593
10°	2596	2584	2589
15°	2594	2582	2586
20°	2585	2574	2578
25°	2571	2560	2562
30°	2553	2541	2543
35°	2529	2520	2522
40°	2503	2490	2492
45°	2466	2455	2459
50°	2422	2405	2410
55°	2353	2334	2343
60°	2238	2228	2228
65°	2089	2085	2078
70°	1850	1859	1854
75°	1557	1546	1534
80°	1120	1102	1093
85°	587	587	568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.4
10°-20°	261.1	9.7
20°-30°	396.8	14.8
30°-40°	479.6	17.9
40°-50°	497.8	18.6
50°-60°	445.1	16.6
60°-70°	323.6	12.1
70°-80°	159.1	5.9
80°-90°	27.6	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°	748.7	27.9
0°-40°	1228.3	45.8
0°-60°	2171.2	81.0
0°-90°	2681.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2681.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	961	950	957	954	960	91
15°	931	920	927	924	928	263
25°	866	856	862	860	863	399
35°	770	765	767	768	768	482
45°	648	645	645	646	646	500
55°	502	499	498	499	499	447
65°	328	329	328	328	326	324
75°	150	151	149	149	148	159
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°	958.9	958.9	958.9	958.9	958.9
2.5°	964.2	952.9	960.0	955.9	962.4
5°	961.2	950.0	957.1	953.5	960.0
7.5°	955.9	944.6	951.8	948.2	953.5
10°	950.0	938.1	945.8	942.3	947.6
12.5°	942.3	931.0	938.1	935.2	939.9
15°	931.0	920.4	926.9	924.5	928.1
17.5°	917.4	906.7	913.3	911.5	914.4
20°	902.6	892.5	899.0	897.3	900.2
22.5°	886.0	875.3	881.3	880.1	882.5
25°	865.9	856.4	862.3	860.5	862.9
27.5°	844.6	835.7	840.4	840.4	841.6
30°	821.5	813.2	817.9	817.9	818.5
32.5°	796.6	790.1	793.0	793.6	793.6
35°	769.9	764.6	767.0	767.6	767.6
37.5°	742.1	736.8	738.5	739.7	739.7
40°	712.5	707.7	708.9	710.1	709.5
42.5°	680.5	676.9	677.5	678.7	678.7
45°	647.9	645.0	645.0	646.1	646.1
47.5°	614.8	611.8	610.6	611.8	611.8
50°	578.6	575.7	574.5	575.7	575.7
52.5°	540.7	537.8	537.8	537.8	538.4
55°	501.6	498.7	497.5	498.7	499.3
57.5°	460.2	459.0	457.2	457.8	456.0
60°	415.8	415.8	414.0	415.2	414.0
62.5°	372.5	373.7	371.9	371.9	370.8
65°	328.1	329.3	327.5	327.5	326.3
67.5°	282.5	284.3	281.9	281.9	280.7
70°	235.1	238.7	236.3	236.9	235.7
72.5°	192.5	194.3	191.9	191.9	190.7
75°	149.8	151.0	148.7	149.2	147.5
77.5°	107.8	109.6	107.2	107.8	107.2
80°	72.3	72.8	71.1	71.7	70.5
82.5°	42.0	42.6	42.0	41.5	40.9
85°	19.0	19.5	19.0	19.0	18.4
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)