

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: P973651

Luminaire Tested: FLR2-22-35-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973651
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-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

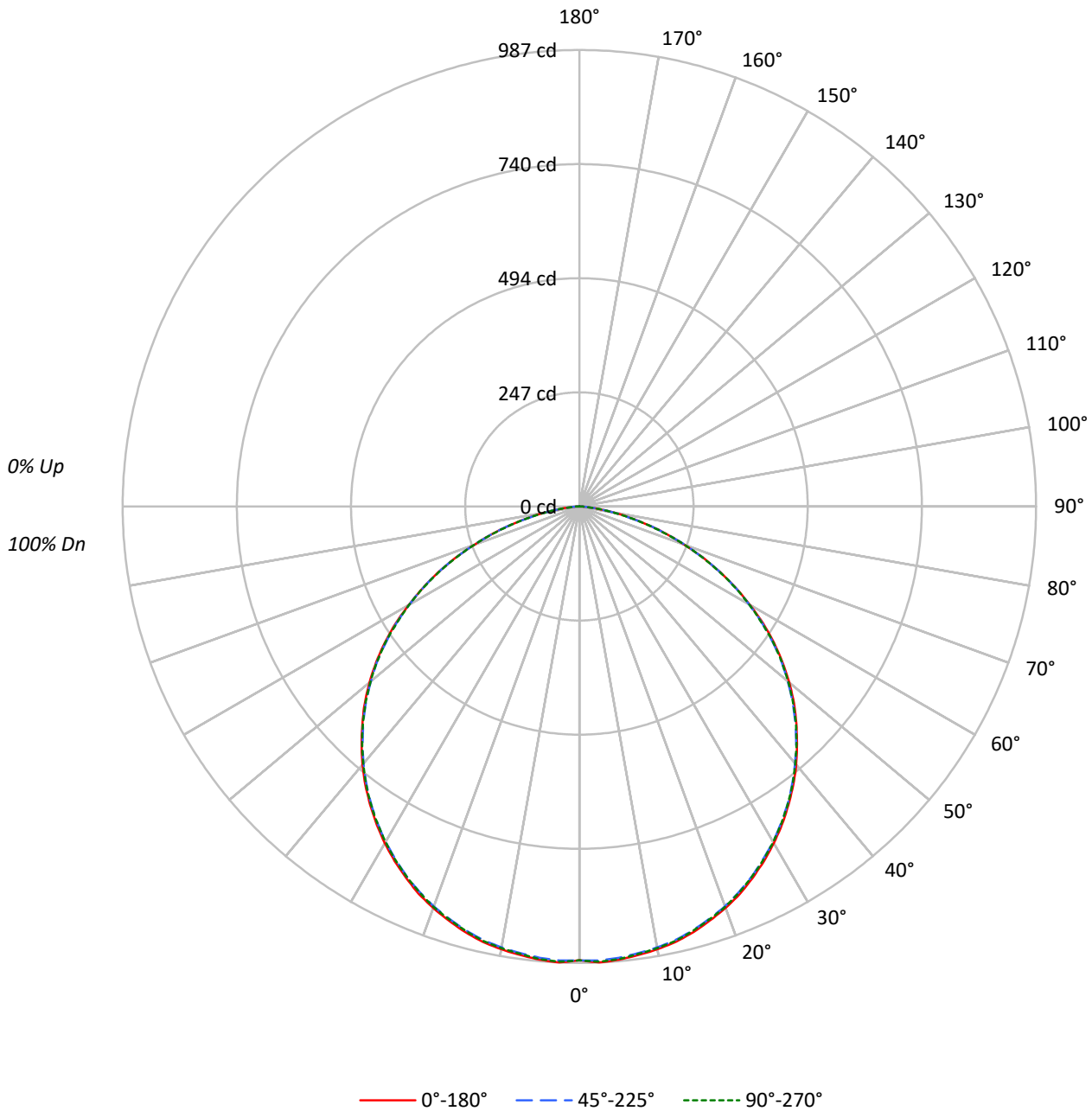
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2744.5 lumens
Efficiency: N/A
Efficacy: 98.4 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						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°	2641	2641	2641
5°	2657	2646	2654
10°	2657	2645	2650
15°	2655	2643	2646
20°	2645	2635	2639
25°	2631	2621	2622
30°	2613	2601	2603
35°	2589	2579	2581
40°	2562	2549	2551
45°	2524	2512	2517
50°	2479	2462	2467
55°	2409	2389	2397
60°	2290	2280	2280
65°	2138	2134	2127
70°	1894	1903	1899
75°	1595	1582	1569
80°	1147	1127	1117
85°	599	599	580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.4
10°-20°	267.3	9.7
20°-30°	406.1	14.8
30°-40°	490.9	17.9
40°-50°	509.5	18.6
50°-60°	455.5	16.6
60°-70°	331.2	12.1
70°-80°	162.9	5.9
80°-90°	28.2	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°	766.3	27.9
0°-40°	1257.2	45.8
0°-60°	2222.2	81.0
0°-90°	2744.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	984	972	980	976	983	94
15°	953	942	949	946	950	269
25°	886	876	883	881	883	408
35°	788	783	785	786	786	493
45°	663	660	660	661	661	512
55°	513	510	509	510	511	458
65°	336	337	335	335	334	331
75°	153	155	152	153	151	163
85°	19	20	19	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.4	981.4	981.4	981.4	981.4
2.5°	986.9	975.4	982.6	978.4	985.1
5°	983.8	972.3	979.6	976.0	982.6
7.5°	978.4	966.9	974.1	970.5	976.0
10°	972.3	960.2	968.1	964.4	969.9
12.5°	964.4	952.9	960.2	957.2	962.0
15°	952.9	942.0	948.7	946.3	949.9
17.5°	939.0	928.1	934.7	932.9	936.0
20°	923.8	913.5	920.2	918.4	921.4
22.5°	906.9	895.9	902.0	900.8	903.2
25°	886.2	876.5	882.6	880.8	883.2
27.5°	864.4	855.3	860.2	860.2	861.4
30°	840.8	832.3	837.1	837.1	837.8
32.5°	815.3	808.7	811.7	812.3	812.3
35°	788.0	782.6	785.0	785.6	785.6
37.5°	759.6	754.1	755.9	757.1	757.1
40°	729.2	724.4	725.6	726.8	726.2
42.5°	696.5	692.9	693.5	694.7	694.7
45°	663.2	660.1	660.1	661.4	661.4
47.5°	629.2	626.2	625.0	626.2	626.2
50°	592.2	589.2	588.0	589.2	589.2
52.5°	553.4	550.4	550.4	550.4	551.0
55°	513.4	510.4	509.2	510.4	511.0
57.5°	471.0	469.8	468.0	468.6	466.8
60°	425.5	425.5	423.7	424.9	423.7
62.5°	381.3	382.5	380.7	380.7	379.5
65°	335.8	337.0	335.2	335.2	334.0
67.5°	289.2	291.0	288.5	288.5	287.3
70°	240.7	244.3	241.9	242.5	241.3
72.5°	197.0	198.8	196.4	196.4	195.2
75°	153.4	154.6	152.2	152.8	150.9
77.5°	110.3	112.1	109.7	110.3	109.7
80°	74.0	74.6	72.7	73.3	72.1
82.5°	43.0	43.6	43.0	42.4	41.8
85°	19.4	20.0	19.4	19.4	18.8
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)