

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: P973515

Luminaire Tested: FLR2-22-35-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973515
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-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

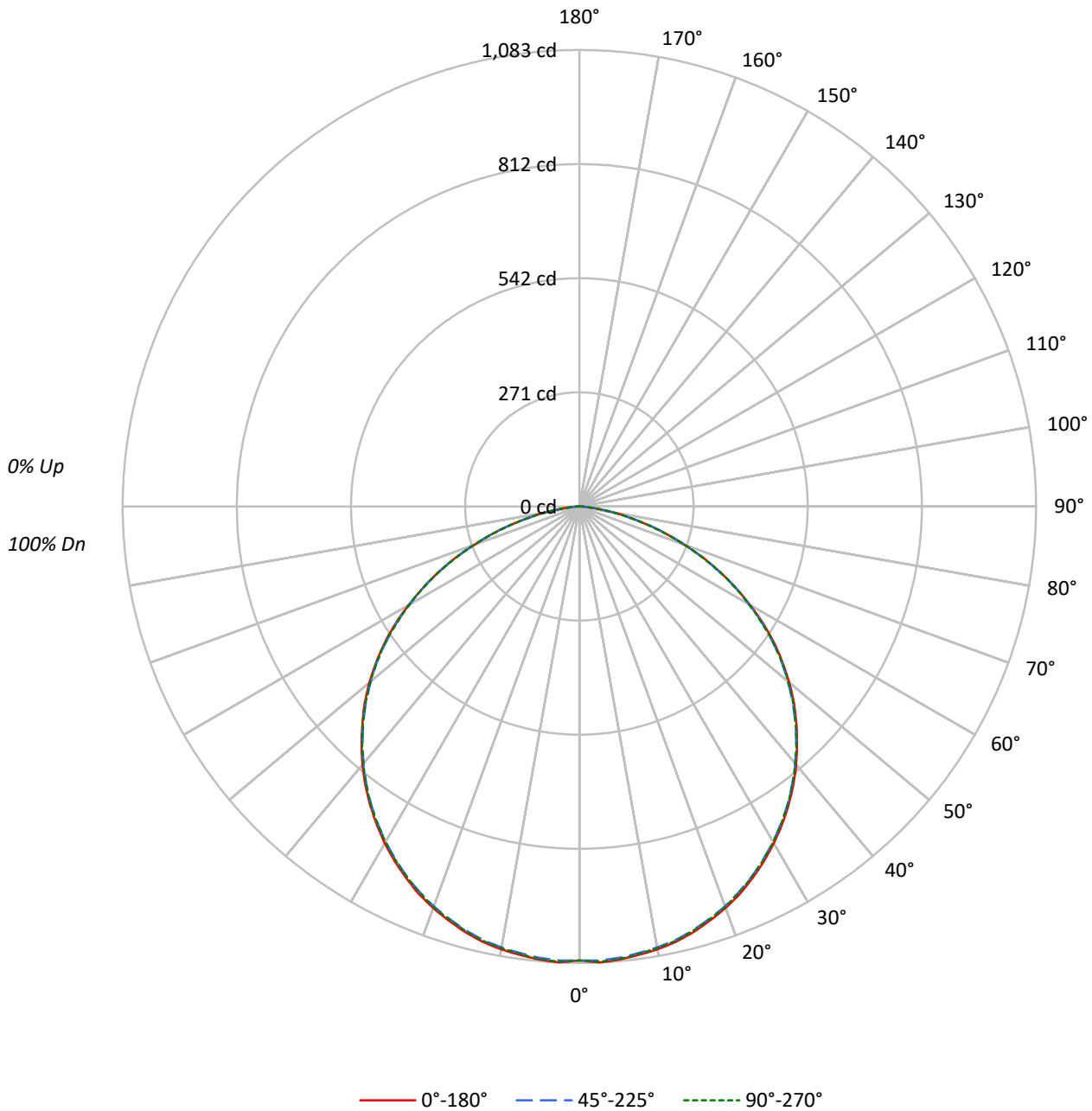
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.7 lumens
Efficiency: N/A
Efficacy: 107.9 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				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	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°	2898	2898	2898
5°	2916	2904	2913
10°	2916	2903	2908
15°	2913	2900	2904
20°	2903	2892	2895
25°	2888	2876	2878
30°	2867	2854	2857
35°	2841	2830	2832
40°	2811	2797	2799
45°	2769	2757	2762
50°	2721	2701	2707
55°	2643	2622	2631
60°	2513	2503	2503
65°	2346	2343	2334
70°	2078	2088	2083
75°	1750	1736	1722
80°	1258	1237	1227
85°	658	658	636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.4
10°-20°	293.3	9.7
20°-30°	445.7	14.8
30°-40°	538.7	17.9
40°-50°	559.1	18.6
50°-60°	499.9	16.6
60°-70°	363.4	12.1
70°-80°	178.7	5.9
80°-90°	31.0	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°	840.9	27.9
0°-40°	1379.6	45.8
0°-60°	2438.6	81.0
0°-90°	3011.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1080	1067	1075	1071	1078	103
15°	1046	1034	1041	1038	1042	295
25°	972	962	968	966	969	448
35°	865	859	861	862	862	541
45°	728	724	724	726	726	561
55°	563	560	559	560	561	502
65°	368	370	368	368	366	363
75°	168	170	167	168	166	179
85°	21	22	21	21	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1082.9	1070.3	1078.3	1073.6	1081.0
5°	1079.6	1067.0	1075.0	1071.0	1078.3
7.5°	1073.6	1061.0	1069.0	1065.0	1071.0
10°	1067.0	1053.7	1062.3	1058.3	1064.3
12.5°	1058.3	1045.7	1053.7	1050.4	1055.7
15°	1045.7	1033.7	1041.0	1038.4	1042.4
17.5°	1030.4	1018.4	1025.7	1023.7	1027.1
20°	1013.8	1002.5	1009.8	1007.8	1011.1
22.5°	995.1	983.2	989.8	988.5	991.2
25°	972.5	961.9	968.5	966.5	969.2
27.5°	948.6	938.6	943.9	943.9	945.3
30°	922.6	913.3	918.6	918.6	919.3
32.5°	894.7	887.4	890.7	891.4	891.4
35°	864.8	858.8	861.4	862.1	862.1
37.5°	833.5	827.5	829.5	830.8	830.8
40°	800.2	794.9	796.2	797.6	796.9
42.5°	764.3	760.3	761.0	762.3	762.3
45°	727.7	724.4	724.4	725.7	725.7
47.5°	690.5	687.2	685.8	687.2	687.2
50°	649.9	646.6	645.2	646.6	646.6
52.5°	607.3	604.0	604.0	604.0	604.7
55°	563.4	560.1	558.8	560.1	560.8
57.5°	516.9	515.5	513.5	514.2	512.2
60°	467.0	467.0	465.0	466.3	465.0
62.5°	418.4	419.7	417.7	417.7	416.4
65°	368.5	369.9	367.9	367.9	366.5
67.5°	317.3	319.3	316.6	316.6	315.3
70°	264.1	268.1	265.4	266.1	264.8
72.5°	216.2	218.2	215.5	215.5	214.2
75°	168.3	169.6	167.0	167.6	165.6
77.5°	121.1	123.1	120.4	121.1	120.4
80°	81.2	81.8	79.8	80.5	79.2
82.5°	47.2	47.9	47.2	46.6	45.9
85°	21.3	22.0	21.3	21.3	20.6
87.5°	5.3	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)