

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: P973664

Luminaire Tested: FLR2-22-45-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973664
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: FLR2-22-45-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

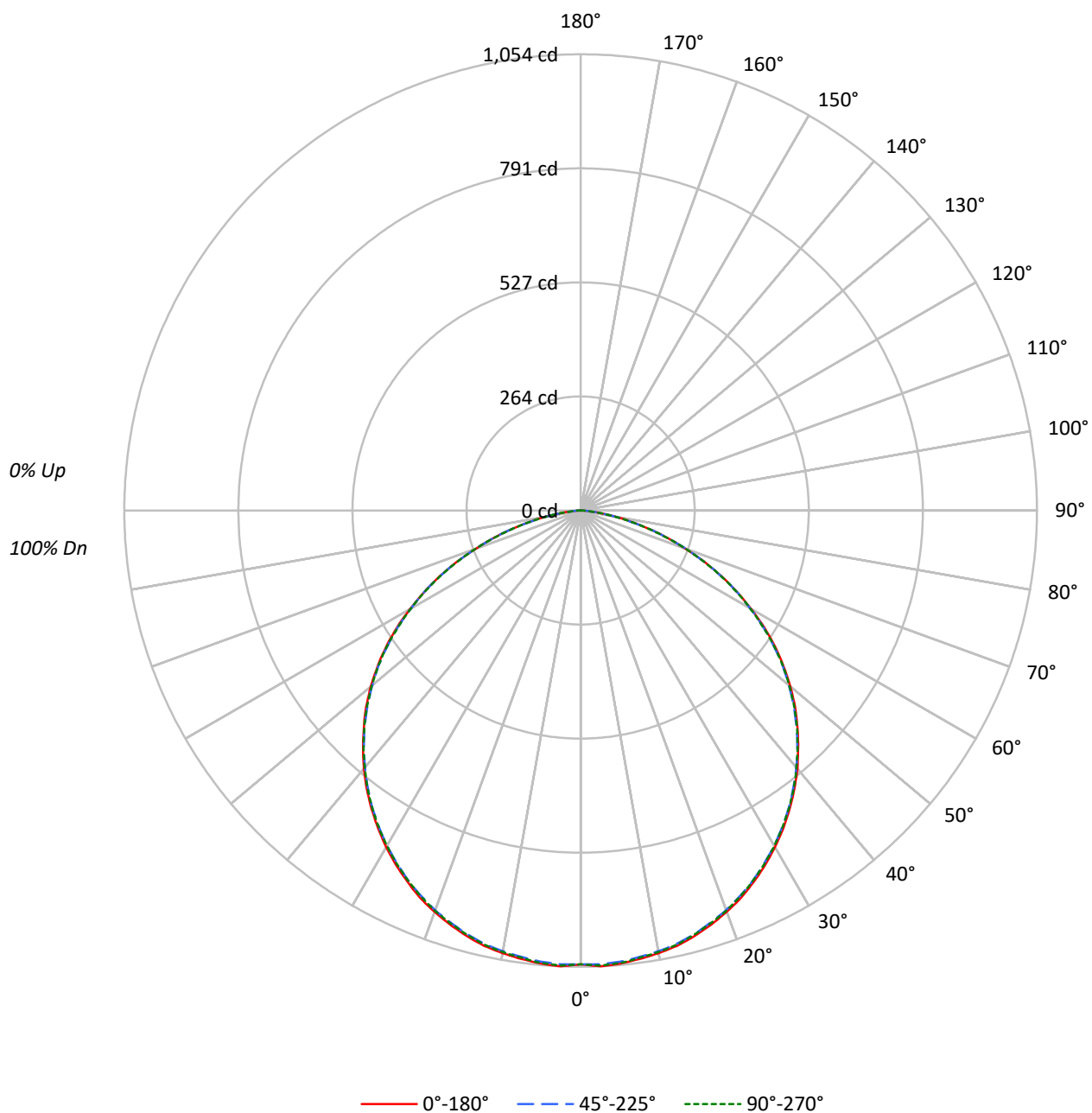
Lumens per Lamp: N/A
Luminaire Lumens: 2931.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	2821	2821	2821
5°	2838	2826	2835
10°	2838	2825	2831
15°	2835	2823	2826
20°	2826	2814	2818
25°	2811	2799	2801
30°	2790	2778	2780
35°	2765	2754	2757
40°	2736	2722	2725
45°	2696	2683	2688
50°	2648	2629	2635
55°	2573	2552	2561
60°	2446	2436	2436
65°	2284	2280	2271
70°	2022	2032	2028
75°	1703	1690	1676
80°	1224	1204	1193
85°	639	639	621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.4
10°-20°	285.4	9.7
20°-30°	433.8	14.8
30°-40°	524.3	17.9
40°-50°	544.2	18.6
50°-60°	486.5	16.6
60°-70°	353.7	12.1
70°-80°	174.0	5.9
80°-90°	30.2	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°	818.5	27.9
0°-40°	1342.8	45.8
0°-60°	2373.5	81.0
0°-90°	2931.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1051	1038	1046	1042	1050	100
15°	1018	1006	1013	1011	1014	287
25°	947	936	943	941	943	436
35°	842	836	838	839	839	527
45°	708	705	705	706	706	546
55°	548	545	544	545	546	489
65°	359	360	358	358	357	354
75°	164	165	162	163	161	174
85°	21	21	21	21	20	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.2	1048.2	1048.2	1048.2	1048.2
2.5°	1054.0	1041.7	1049.5	1045.0	1052.1
5°	1050.8	1038.5	1046.3	1042.4	1049.5
7.5°	1045.0	1032.7	1040.4	1036.6	1042.4
10°	1038.5	1025.6	1034.0	1030.1	1035.9
12.5°	1030.1	1017.8	1025.6	1022.3	1027.5
15°	1017.8	1006.1	1013.3	1010.7	1014.5
17.5°	1002.9	991.2	998.4	996.4	999.7
20°	986.7	975.7	982.8	980.9	984.1
22.5°	968.6	956.9	963.4	962.1	964.7
25°	946.6	936.2	942.7	940.7	943.3
27.5°	923.3	913.5	918.7	918.7	920.0
30°	898.0	888.9	894.1	894.1	894.8
32.5°	870.8	863.7	866.9	867.6	867.6
35°	841.7	835.9	838.4	839.1	839.1
37.5°	811.2	805.4	807.4	808.7	808.7
40°	778.9	773.7	775.0	776.3	775.6
42.5°	743.9	740.0	740.7	742.0	742.0
45°	708.3	705.1	705.1	706.4	706.4
47.5°	672.0	668.8	667.5	668.8	668.8
50°	632.6	629.3	628.0	629.3	629.3
52.5°	591.1	587.9	587.9	587.9	588.5
55°	548.4	545.1	543.9	545.1	545.8
57.5°	503.1	501.8	499.8	500.5	498.5
60°	454.5	454.5	452.6	453.9	452.6
62.5°	407.2	408.5	406.6	406.6	405.3
65°	358.7	360.0	358.0	358.0	356.7
67.5°	308.8	310.8	308.2	308.2	306.9
70°	257.0	260.9	258.3	259.0	257.7
72.5°	210.4	212.4	209.8	209.8	208.5
75°	163.8	165.1	162.5	163.2	161.2
77.5°	117.8	119.8	117.2	117.8	117.2
80°	79.0	79.6	77.7	78.3	77.0
82.5°	46.0	46.6	46.0	45.3	44.7
85°	20.7	21.4	20.7	20.7	20.1
87.5°	5.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)