

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: P974401

Luminaire Tested: FLR2-24-20-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L850-CP125
Ballast/Driver: -

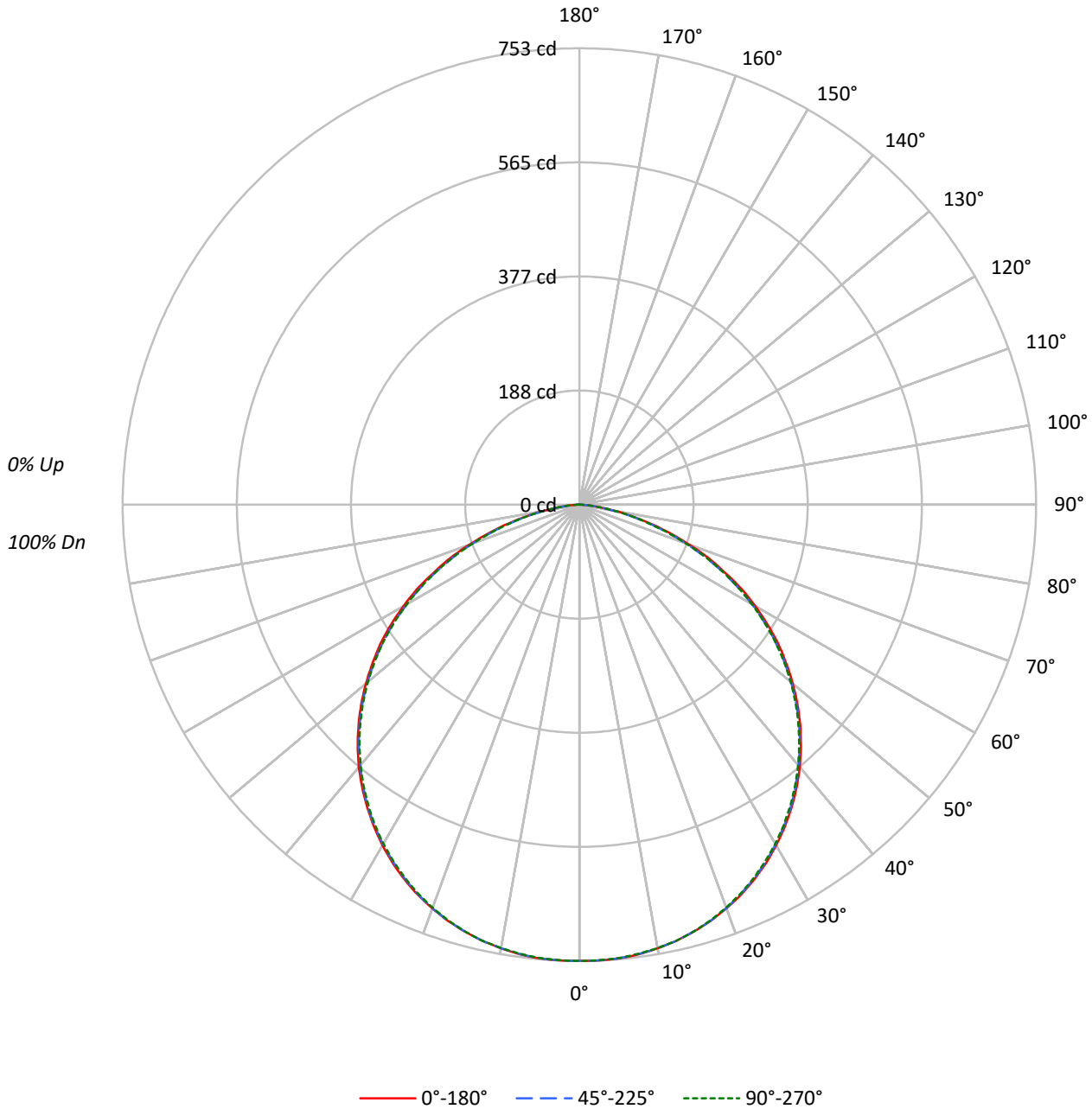
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1013	1013	1013
5°	1015	1015	1014
10°	1016	1015	1015
15°	1016	1016	1016
20°	1015	1015	1013
25°	1013	1011	1010
30°	1009	1006	1004
35°	1002	999	996
40°	993	987	986
45°	980	975	972
50°	962	955	952
55°	939	926	925
60°	900	884	884
65°	842	822	825
70°	758	734	732
75°	636	611	608
80°	465	442	460
85°	262	242	245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 980 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.4
10°-20°	205.9	9.7
20°-30°	313.9	14.8
30°-40°	380.3	17.9
40°-50°	395.1	18.6
50°-60°	353.4	16.6
60°-70°	257.6	12.1
70°-80°	127.6	6.0
80°-90°	22.8	1.1
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°	591.3	27.8
0°-40°	971.6	45.7
0°-60°	1720.1	80.8
0°-90°	2128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	752	752	752	752	751	71
15°	729	729	729	730	729	206
25°	682	682	681	681	680	315
35°	610	609	608	607	606	382
45°	515	514	512	511	511	397
55°	400	397	395	395	394	357
65°	264	262	258	259	259	262
75°	122	120	118	120	117	131
85°	17	16	16	16	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.9	752.9	752.9	752.9	752.9
2.5°	752.9	752.7	752.7	752.9	752.4
5°	751.6	751.9	751.6	751.6	751.1
7.5°	748.6	748.4	748.1	748.4	747.5
10°	743.5	743.5	743.2	743.5	742.9
12.5°	737.3	737.3	737.3	737.5	737.3
15°	729.4	729.2	729.2	729.7	729.2
17.5°	720.3	720.0	720.0	719.7	719.2
20°	708.9	708.9	708.6	708.4	707.6
22.5°	696.8	696.5	695.7	695.7	694.6
25°	682.4	681.6	681.1	680.8	680.0
27.5°	666.8	665.7	664.9	664.3	663.5
30°	649.2	648.1	647.3	646.5	646.0
32.5°	630.3	629.8	628.4	628.1	627.0
35°	610.0	609.2	608.4	607.3	606.2
37.5°	588.4	587.6	585.7	585.2	584.4
40°	565.5	564.4	561.9	561.9	561.1
42.5°	540.9	539.8	538.2	537.1	536.5
45°	515.2	514.1	512.2	511.1	510.6
47.5°	487.9	487.1	484.9	484.1	483.3
50°	459.5	458.5	456.0	455.5	454.7
52.5°	429.8	429.3	426.0	425.8	425.0
55°	400.4	397.4	394.7	394.7	394.2
57.5°	368.0	365.8	362.3	362.3	361.7
60°	334.5	332.6	328.5	329.1	328.5
62.5°	301.8	297.7	293.9	295.6	294.2
65°	264.5	262.3	258.3	259.4	259.1
67.5°	230.4	226.4	222.6	224.8	223.7
70°	192.6	190.5	186.7	188.8	186.1
72.5°	157.0	155.1	151.3	153.7	151.0
75°	122.4	120.5	117.5	119.7	117.0
77.5°	89.7	88.3	85.6	87.8	88.3
80°	60.0	58.4	57.0	58.9	59.4
82.5°	35.1	34.0	33.5	33.8	35.1
85°	17.0	15.7	15.7	15.9	15.9
87.5°	4.6	4.1	4.6	4.9	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)