

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: P974385

Luminaire Tested: FLR2-24-20-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974385
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-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L940-CA125
Ballast/Driver: -

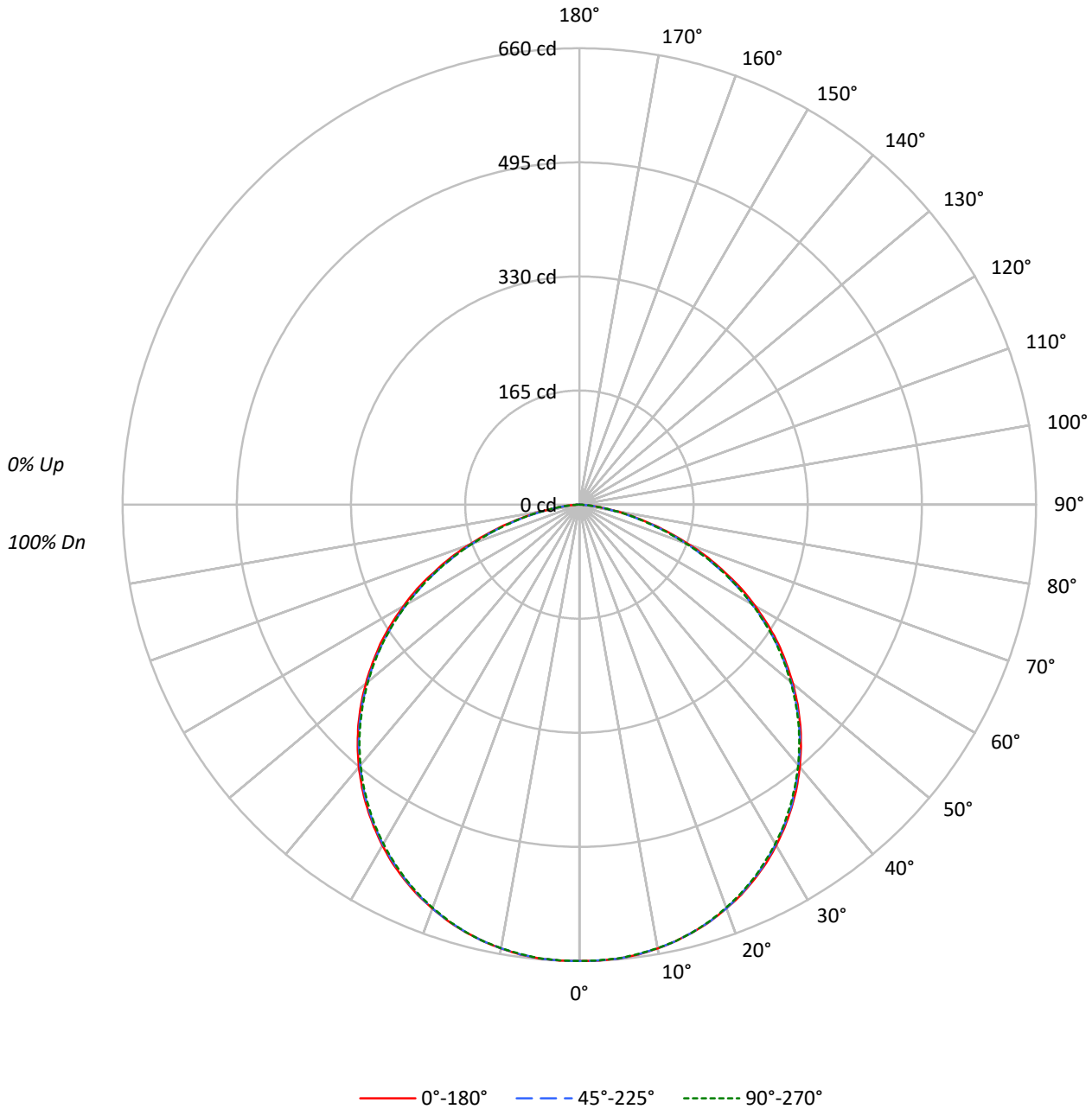
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1865.7 lumens
Efficiency: N/A
Efficacy: 111.7 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									
RC	80									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	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85			85																
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51			51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44			44																
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38			38																
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34			34																
8	61	47	39	33	59	47	38	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	39	33	29	27			27																
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25			25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	888	888	888
5°	890	890	889
10°	891	890	890
15°	891	891	891
20°	890	890	888
25°	888	886	885
30°	884	882	880
35°	878	876	873
40°	871	865	864
45°	859	855	852
50°	843	837	834
55°	823	812	811
60°	789	775	775
65°	738	721	723
70°	664	644	642
75°	558	535	533
80°	408	387	404
85°	230	211	216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 859 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.4
10°-20°	180.5	9.7
20°-30°	275.2	14.8
30°-40°	333.5	17.9
40°-50°	346.4	18.6
50°-60°	309.9	16.6
60°-70°	225.8	12.1
70°-80°	111.8	6.0
80°-90°	20.0	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°	518.4	27.8
0°-40°	851.8	45.7
0°-60°	1508.1	80.8
0°-90°	1865.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	659	659	659	659	658	63
15°	640	639	639	640	639	181
25°	598	598	597	597	596	276
35°	535	534	533	532	532	335
45°	452	451	449	448	448	348
55°	351	348	346	346	346	313
65°	232	230	226	227	227	230
75°	107	106	103	105	103	114
85°	15	14	14	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.1	660.1	660.1	660.1	660.1
2.5°	660.1	659.9	659.9	660.1	659.7
5°	658.9	659.2	658.9	658.9	658.5
7.5°	656.3	656.1	655.9	656.1	655.4
10°	651.8	651.8	651.6	651.8	651.4
12.5°	646.4	646.4	646.4	646.6	646.4
15°	639.5	639.3	639.3	639.8	639.3
17.5°	631.5	631.2	631.2	631.0	630.5
20°	621.5	621.5	621.3	621.0	620.3
22.5°	610.9	610.6	609.9	609.9	609.0
25°	598.3	597.6	597.1	596.9	596.2
27.5°	584.6	583.6	582.9	582.4	581.7
30°	569.2	568.2	567.5	566.8	566.3
32.5°	552.6	552.1	550.9	550.7	549.8
35°	534.8	534.1	533.4	532.5	531.5
37.5°	515.9	515.2	513.5	513.0	512.3
40°	495.7	494.8	492.7	492.7	492.0
42.5°	474.2	473.2	471.8	470.9	470.4
45°	451.7	450.7	449.1	448.1	447.7
47.5°	427.8	427.1	425.2	424.5	423.7
50°	402.9	402.0	399.8	399.3	398.6
52.5°	376.8	376.4	373.5	373.3	372.6
55°	351.0	348.4	346.1	346.1	345.6
57.5°	322.6	320.7	317.6	317.6	317.2
60°	293.2	291.6	288.0	288.5	288.0
62.5°	264.6	261.0	257.7	259.1	257.9
65°	231.9	230.0	226.4	227.4	227.1
67.5°	202.0	198.5	195.2	197.1	196.1
70°	168.9	167.0	163.7	165.6	163.2
72.5°	137.6	136.0	132.6	134.8	132.4
75°	107.3	105.6	103.0	104.9	102.6
77.5°	78.6	77.5	75.1	77.0	77.5
80°	52.6	51.2	50.0	51.6	52.1
82.5°	30.8	29.8	29.4	29.6	30.8
85°	14.9	13.7	13.7	14.0	14.0
87.5°	4.0	3.6	4.0	4.3	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)