

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: P974802

Luminaire Tested: FLR2-24-20HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974802
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: FLR2-24-20HE-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

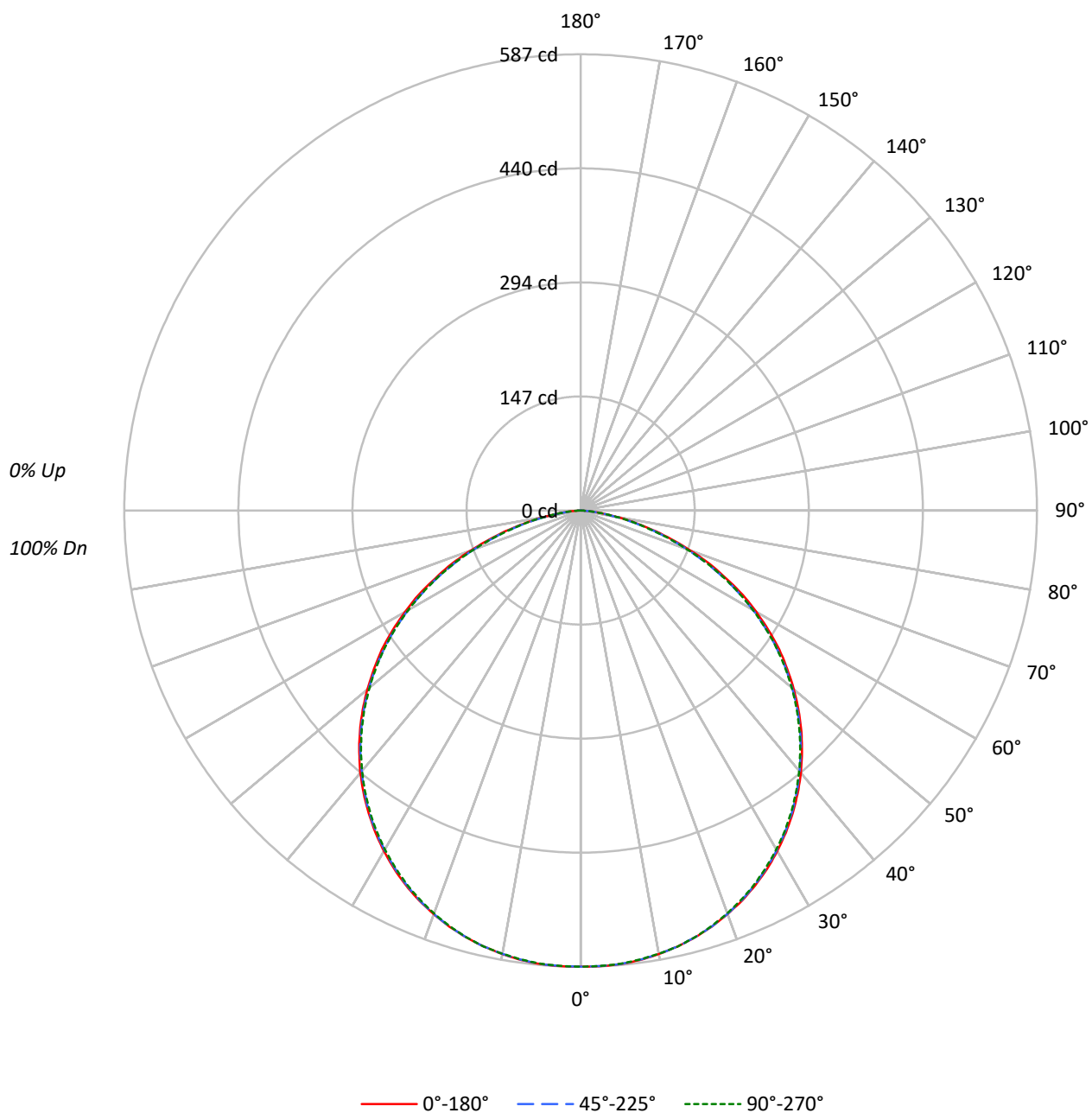
Lumens per Lamp: N/A
Luminaire Lumens: 1658.8 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V):
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	790	790	790
5°	791	791	791
10°	792	791	791
15°	792	792	792
20°	791	791	790
25°	790	788	787
30°	786	784	782
35°	781	779	776
40°	774	769	768
45°	764	760	757
50°	750	744	742
55°	732	722	721
60°	702	689	689
65°	656	641	643
70°	591	572	571
75°	496	476	474
80°	363	344	359
85°	205	188	191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.4
10°-20°	160.5	9.7
20°-30°	244.7	14.8
30°-40°	296.5	17.9
40°-50°	308.0	18.6
50°-60°	275.5	16.6
60°-70°	200.8	12.1
70°-80°	99.4	6.0
80°-90°	17.8	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°	460.9	27.8
0°-40°	757.4	45.7
0°-60°	1340.8	80.8
0°-90°	1658.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	586	586	586	586	585	56
15°	569	568	568	569	568	161
25°	532	531	531	531	530	245
35°	476	475	474	473	473	297
45°	402	401	399	398	398	309
55°	312	310	308	308	307	278
65°	206	204	201	202	202	204
75°	95	94	92	93	91	102
85°	13	12	12	12	12	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.9	586.9	586.9	586.9	586.9
2.5°	586.9	586.7	586.7	586.9	586.5
5°	585.9	586.1	585.9	585.9	585.4
7.5°	583.5	583.3	583.1	583.3	582.7
10°	579.5	579.5	579.3	579.5	579.1
12.5°	574.7	574.7	574.7	574.9	574.7
15°	568.6	568.4	568.4	568.8	568.4
17.5°	561.4	561.2	561.2	561.0	560.6
20°	552.6	552.6	552.4	552.2	551.5
22.5°	543.1	542.9	542.3	542.3	541.4
25°	531.9	531.3	530.9	530.7	530.1
27.5°	519.7	518.9	518.3	517.8	517.2
30°	506.0	505.2	504.6	503.9	503.5
32.5°	491.3	490.9	489.8	489.6	488.8
35°	475.5	474.9	474.2	473.4	472.6
37.5°	458.7	458.0	456.6	456.1	455.5
40°	440.8	439.9	438.0	438.0	437.4
42.5°	421.6	420.8	419.5	418.7	418.2
45°	401.6	400.8	399.3	398.4	398.0
47.5°	380.3	379.7	378.0	377.4	376.7
50°	358.2	357.4	355.5	355.1	354.4
52.5°	335.0	334.6	332.1	331.9	331.3
55°	312.1	309.8	307.7	307.7	307.3
57.5°	286.8	285.1	282.4	282.4	282.0
60°	260.7	259.2	256.1	256.5	256.1
62.5°	235.2	232.1	229.1	230.4	229.3
65°	206.2	204.5	201.3	202.2	202.0
67.5°	179.6	176.5	173.5	175.2	174.4
70°	150.2	148.5	145.5	147.2	145.1
72.5°	122.4	120.9	117.9	119.8	117.7
75°	95.4	93.9	91.6	93.3	91.2
77.5°	69.9	68.9	66.8	68.4	68.9
80°	46.8	45.5	44.4	45.9	46.3
82.5°	27.4	26.5	26.1	26.3	27.4
85°	13.3	12.2	12.2	12.4	12.4
87.5°	3.6	3.2	3.6	3.8	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)