

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: P975044

Luminaire Tested: FLR2-24-20HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975044
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-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

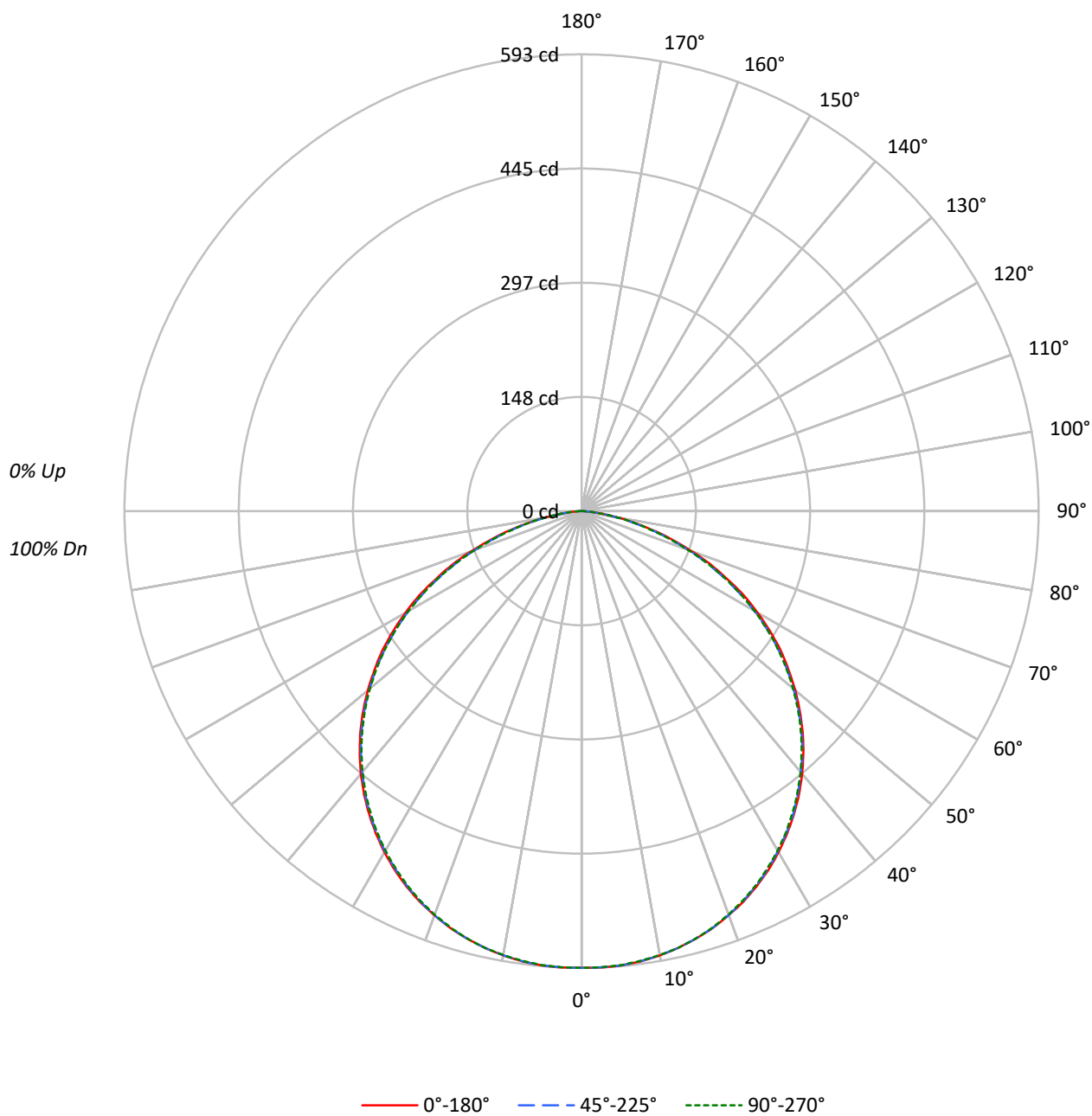
Lumens per Lamp: N/A
Luminaire Lumens: 1676.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	798	798	798
5°	800	800	799
10°	800	800	800
15°	800	800	800
20°	800	799	798
25°	798	796	795
30°	795	792	790
35°	789	787	784
40°	782	778	776
45°	772	768	765
50°	758	752	750
55°	740	729	728
60°	709	696	696
65°	663	648	650
70°	597	579	577
75°	501	481	479
80°	366	348	363
85°	207	190	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 772 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	3.4
10°-20°	162.2	9.7
20°-30°	247.3	14.8
30°-40°	299.6	17.9
40°-50°	311.2	18.6
50°-60°	278.4	16.6
60°-70°	202.9	12.1
70°-80°	100.5	6.0
80°-90°	18.0	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°	465.8	27.8
0°-40°	765.4	45.7
0°-60°	1355.0	80.8
0°-90°	1676.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	592	592	592	592	592	56
15°	575	574	574	575	574	162
25°	538	537	536	536	536	248
35°	480	480	479	478	478	301
45°	406	405	404	403	402	313
55°	315	313	311	311	310	281
65°	208	207	204	204	204	207
75°	96	95	93	94	92	103
85°	13	12	12	13	13	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.1	593.1	593.1	593.1	593.1
2.5°	593.1	592.9	592.9	593.1	592.7
5°	592.1	592.3	592.1	592.1	591.6
7.5°	589.7	589.5	589.3	589.5	588.9
10°	585.7	585.7	585.5	585.7	585.2
12.5°	580.8	580.8	580.8	581.0	580.8
15°	574.6	574.4	574.4	574.8	574.4
17.5°	567.4	567.2	567.2	566.9	566.5
20°	558.4	558.4	558.2	558.0	557.4
22.5°	548.9	548.6	548.0	548.0	547.2
25°	537.6	536.9	536.5	536.3	535.7
27.5°	525.2	524.4	523.7	523.3	522.7
30°	511.4	510.5	509.9	509.3	508.8
32.5°	496.5	496.1	495.0	494.8	493.9
35°	480.5	479.9	479.3	478.4	477.6
37.5°	463.5	462.9	461.4	461.0	460.3
40°	445.4	444.6	442.7	442.7	442.0
42.5°	426.1	425.2	423.9	423.1	422.7
45°	405.8	405.0	403.5	402.7	402.2
47.5°	384.3	383.7	382.0	381.4	380.7
50°	362.0	361.2	359.2	358.8	358.2
52.5°	338.6	338.2	335.6	335.4	334.8
55°	315.4	313.1	310.9	310.9	310.5
57.5°	289.9	288.2	285.4	285.4	285.0
60°	263.5	262.0	258.8	259.2	258.8
62.5°	237.7	234.5	231.5	232.8	231.8
65°	208.3	206.6	203.5	204.3	204.1
67.5°	181.5	178.3	175.4	177.1	176.2
70°	151.7	150.0	147.1	148.8	146.6
72.5°	123.6	122.2	119.2	121.1	119.0
75°	96.4	94.9	92.6	94.3	92.1
77.5°	70.7	69.6	67.5	69.2	69.6
80°	47.2	46.0	44.9	46.4	46.8
82.5°	27.7	26.8	26.4	26.6	27.7
85°	13.4	12.3	12.3	12.6	12.6
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)