

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: P975100

Luminaire Tested: FLR2-24-30HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975100
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: FLR2-24-30HE-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

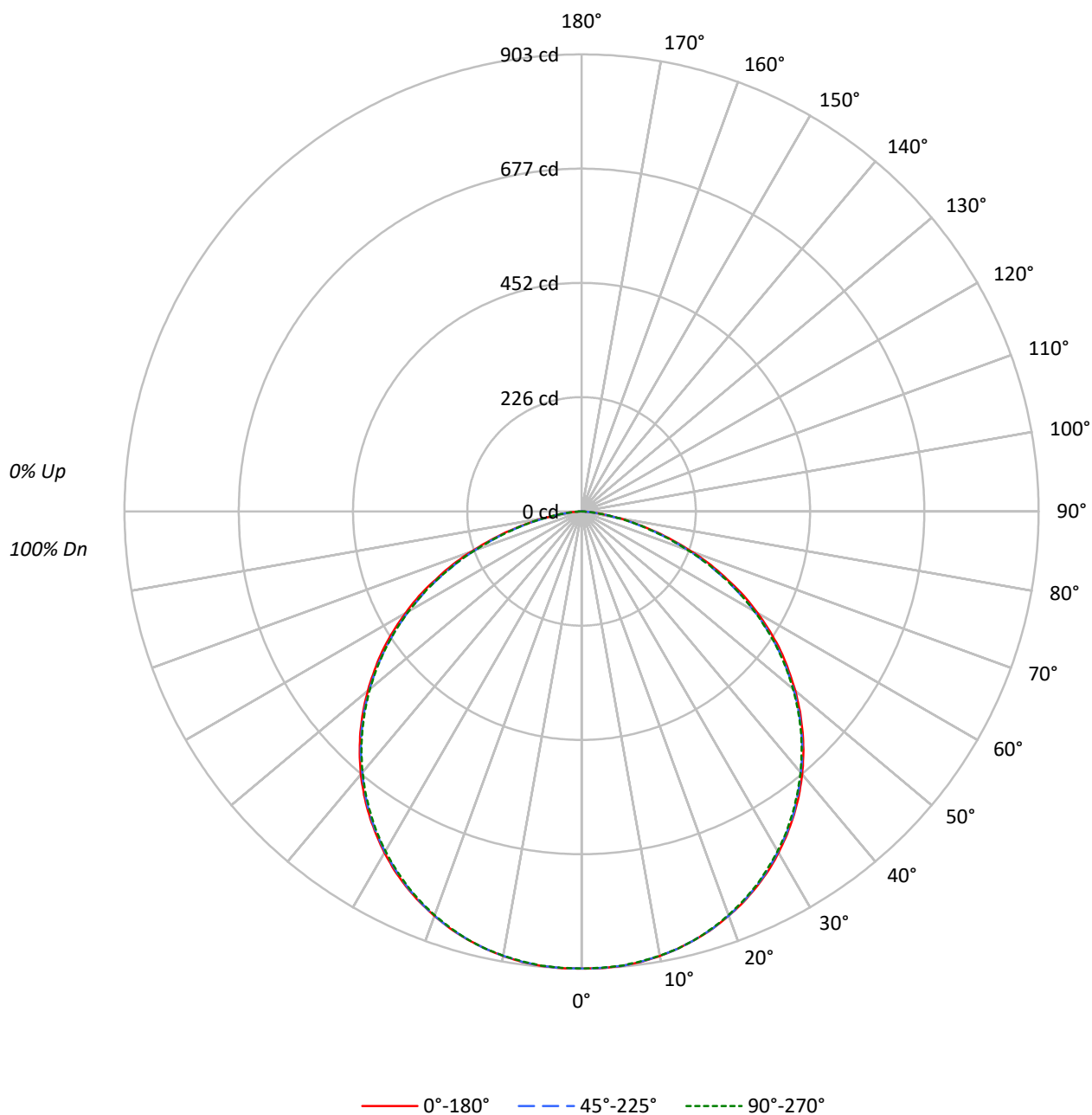
Lumens per Lamp: N/A
Luminaire Lumens: 2552.6 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
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		
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°	1215	1215	1215
5°	1218	1218	1217
10°	1218	1218	1218
15°	1219	1218	1218
20°	1217	1217	1215
25°	1215	1213	1211
30°	1210	1206	1204
35°	1202	1199	1194
40°	1191	1184	1182
45°	1176	1169	1165
50°	1154	1145	1142
55°	1127	1111	1109
60°	1080	1061	1061
65°	1010	986	989
70°	909	881	878
75°	763	733	729
80°	557	530	552
85°	315	290	295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.4
10°-20°	247.0	9.7
20°-30°	376.5	14.8
30°-40°	456.2	17.9
40°-50°	473.9	18.6
50°-60°	423.9	16.6
60°-70°	309.0	12.1
70°-80°	153.0	6.0
80°-90°	27.3	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°	709.2	27.8
0°-40°	1165.5	45.7
0°-60°	2063.3	80.8
0°-90°	2552.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	902	902	902	902	901	86
15°	875	875	875	875	875	247
25°	819	818	817	817	816	377
35°	732	731	730	728	727	458
45°	618	617	614	613	612	476
55°	480	477	474	474	473	428
65°	317	315	310	311	311	315
75°	147	144	141	144	140	157
85°	20	19	19	19	19	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.2	903.2	903.2	903.2	903.2
2.5°	903.2	902.8	902.8	903.2	902.5
5°	901.5	901.9	901.5	901.5	900.9
7.5°	898.0	897.6	897.3	897.6	896.7
10°	891.8	891.8	891.5	891.8	891.2
12.5°	884.4	884.4	884.4	884.7	884.4
15°	875.0	874.6	874.6	875.3	874.6
17.5°	863.9	863.6	863.6	863.3	862.6
20°	850.3	850.3	850.0	849.7	848.7
22.5°	835.7	835.4	834.5	834.5	833.2
25°	818.6	817.6	817.0	816.6	815.7
27.5°	799.8	798.5	797.5	796.9	795.9
30°	778.7	777.4	776.4	775.5	774.8
32.5°	756.0	755.4	753.8	753.4	752.1
35°	731.7	730.8	729.8	728.5	727.2
37.5°	705.8	704.8	702.6	701.9	700.9
40°	678.3	677.0	674.0	674.0	673.1
42.5°	648.8	647.5	645.5	644.2	643.6
45°	618.0	616.7	614.4	613.1	612.5
47.5°	585.3	584.3	581.7	580.7	579.7
50°	551.2	549.9	547.0	546.4	545.4
52.5°	515.6	514.9	511.0	510.7	509.7
55°	480.3	476.7	473.5	473.5	472.8
57.5°	441.4	438.8	434.6	434.6	433.9
60°	401.2	398.9	394.1	394.7	394.1
62.5°	362.0	357.1	352.6	354.5	352.9
65°	317.3	314.7	309.8	311.1	310.8
67.5°	276.4	271.6	267.0	269.6	268.3
70°	231.1	228.5	223.9	226.5	223.3
72.5°	188.3	186.0	181.5	184.4	181.1
75°	146.8	144.5	141.0	143.6	140.3
77.5°	107.6	106.0	102.7	105.3	106.0
80°	71.9	70.0	68.4	70.6	71.3
82.5°	42.1	40.8	40.2	40.5	42.1
85°	20.4	18.8	18.8	19.1	19.1
87.5°	5.5	4.9	5.5	5.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)