

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: P975111

Luminaire Tested: FLR2-24-30HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975111
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

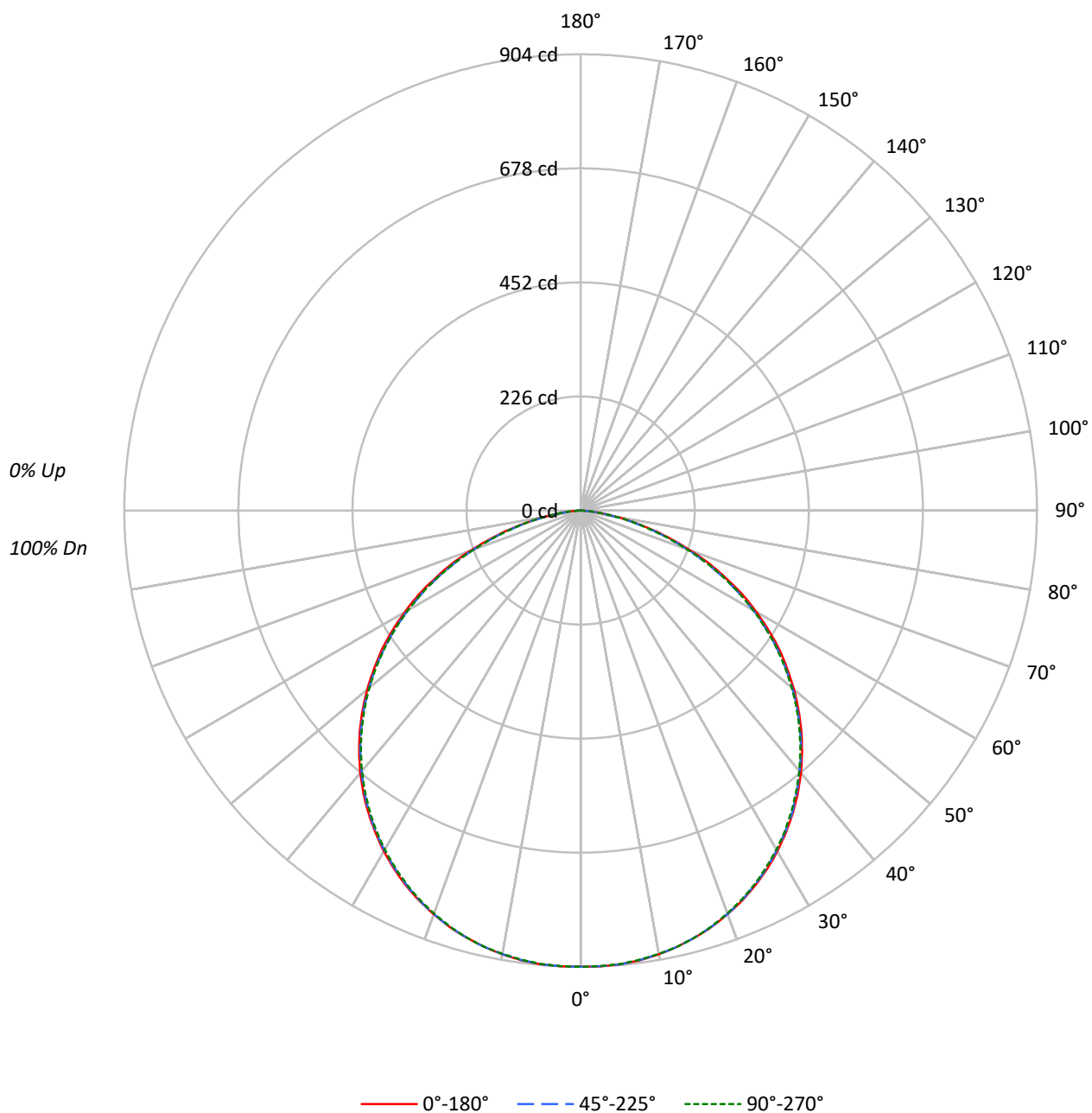
Lumens per Lamp: N/A
Luminaire Lumens: 2555.3 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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		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°	1216	1216	1216
5°	1219	1219	1218
10°	1220	1219	1219
15°	1220	1220	1220
20°	1219	1218	1216
25°	1217	1214	1212
30°	1211	1208	1205
35°	1203	1200	1196
40°	1193	1185	1183
45°	1177	1170	1167
50°	1155	1146	1143
55°	1128	1112	1110
60°	1081	1062	1062
65°	1011	987	990
70°	910	882	879
75°	764	734	730
80°	558	531	553
85°	315	290	295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.4
10°-20°	247.2	9.7
20°-30°	376.9	14.8
30°-40°	456.7	17.9
40°-50°	474.4	18.6
50°-60°	424.4	16.6
60°-70°	309.3	12.1
70°-80°	153.2	6.0
80°-90°	27.4	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°	710.0	27.8
0°-40°	1166.7	45.7
0°-60°	2065.5	80.8
0°-90°	2555.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	902	903	902	902	902	86
15°	876	876	876	876	876	247
25°	820	818	818	818	816	378
35°	732	732	731	729	728	458
45°	619	617	615	614	613	477
55°	481	477	474	474	473	428
65°	318	315	310	311	311	315
75°	147	145	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°	904.1	904.1	904.1	904.1	904.1
2.5°	904.1	903.8	903.8	904.1	903.5
5°	902.5	902.8	902.5	902.5	901.9
7.5°	898.9	898.6	898.3	898.6	897.6
10°	892.8	892.8	892.4	892.8	892.1
12.5°	885.3	885.3	885.3	885.6	885.3
15°	875.9	875.6	875.6	876.2	875.6
17.5°	864.9	864.5	864.5	864.2	863.6
20°	851.2	851.2	850.9	850.6	849.6
22.5°	836.6	836.3	835.4	835.4	834.1
25°	819.5	818.5	817.8	817.5	816.5
27.5°	800.6	799.3	798.4	797.7	796.7
30°	779.6	778.3	777.3	776.3	775.7
32.5°	756.8	756.2	754.6	754.2	753.0
35°	732.5	731.5	730.6	729.3	728.0
37.5°	706.6	705.6	703.3	702.7	701.7
40°	679.0	677.7	674.8	674.8	673.8
42.5°	649.5	648.2	646.2	644.9	644.3
45°	618.6	617.3	615.1	613.8	613.1
47.5°	585.9	584.9	582.3	581.3	580.4
50°	551.8	550.5	547.6	547.0	546.0
52.5°	516.1	515.5	511.6	511.3	510.3
55°	480.8	477.2	474.0	474.0	473.3
57.5°	441.8	439.2	435.0	435.0	434.4
60°	401.6	399.3	394.5	395.1	394.5
62.5°	362.4	357.5	353.0	354.9	353.3
65°	317.6	315.0	310.1	311.4	311.1
67.5°	276.7	271.9	267.3	269.9	268.6
70°	231.3	228.7	224.2	226.8	223.5
72.5°	188.5	186.2	181.7	184.6	181.3
75°	147.0	144.7	141.1	143.7	140.5
77.5°	107.7	106.1	102.8	105.4	106.1
80°	72.0	70.1	68.5	70.7	71.4
82.5°	42.2	40.9	40.2	40.6	42.2
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)