

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: P975045

Luminaire Tested: FLR2-24-30HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975045
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

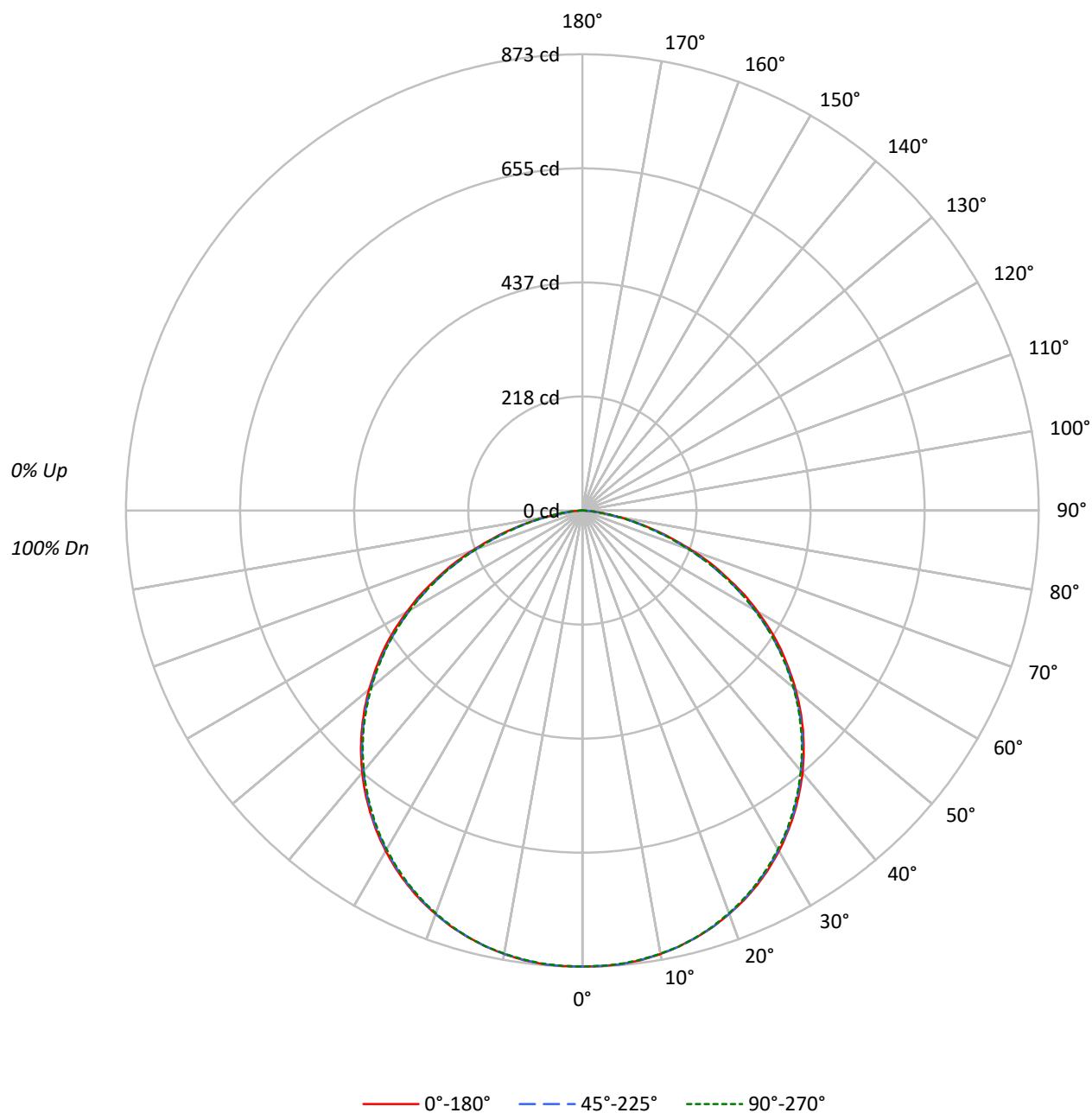
Lumens per Lamp: N/A
Luminaire Lumens: 2466.3 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1174	1174	1174
5°	1177	1177	1176
10°	1177	1177	1176
15°	1178	1177	1177
20°	1176	1176	1174
25°	1174	1172	1170
30°	1169	1166	1163
35°	1161	1158	1154
40°	1151	1144	1142
45°	1136	1130	1126
50°	1115	1106	1103
55°	1088	1073	1072
60°	1043	1024	1024
65°	976	953	956
70°	878	851	849
75°	737	708	705
80°	539	512	534
85°	304	281	286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1136 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.4
10°-20°	238.6	9.7
20°-30°	363.8	14.8
30°-40°	440.8	17.9
40°-50°	457.9	18.6
50°-60°	409.6	16.6
60°-70°	298.5	12.1
70°-80°	147.8	6.0
80°-90°	26.4	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°	685.3	27.8
0°-40°	1126.1	45.7
0°-60°	1993.5	80.8
0°-90°	2466.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2466.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	871	871	871	871	870	83
15°	845	845	845	846	845	239
25°	791	790	789	789	788	365
35°	707	706	705	704	703	442
45°	597	596	594	592	592	460
55°	464	461	457	457	457	413
65°	306	304	299	301	300	304
75°	142	140	136	139	136	151
85°	20	18	18	18	18	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.6	872.6	872.6	872.6	872.6
2.5°	872.6	872.3	872.3	872.6	872.0
5°	871.1	871.4	871.1	871.1	870.4
7.5°	867.6	867.3	867.0	867.3	866.4
10°	861.7	861.7	861.4	861.7	861.0
12.5°	854.5	854.5	854.5	854.8	854.5
15°	845.4	845.1	845.1	845.7	845.1
17.5°	834.7	834.4	834.4	834.1	833.5
20°	821.6	821.6	821.3	821.0	820.0
22.5°	807.5	807.2	806.2	806.2	805.0
25°	790.9	790.0	789.3	789.0	788.1
27.5°	772.7	771.5	770.6	769.9	769.0
30°	752.4	751.1	750.2	749.3	748.6
32.5°	730.5	729.8	728.3	728.0	726.7
35°	707.0	706.1	705.1	703.9	702.6
37.5°	681.9	681.0	678.8	678.2	677.2
40°	655.3	654.1	651.3	651.3	650.3
42.5°	626.8	625.6	623.7	622.5	621.8
45°	597.1	595.8	593.6	592.4	591.8
47.5°	565.5	564.5	562.0	561.1	560.1
50°	532.6	531.3	528.5	527.9	527.0
52.5°	498.2	497.5	493.8	493.5	492.5
55°	464.0	460.6	457.4	457.4	456.8
57.5°	426.4	423.9	419.9	419.9	419.2
60°	387.6	385.4	380.7	381.4	380.7
62.5°	349.7	345.0	340.7	342.5	341.0
65°	306.5	304.0	299.3	300.6	300.3
67.5°	267.1	262.4	258.0	260.5	259.3
70°	223.2	220.7	216.4	218.9	215.7
72.5°	181.9	179.7	175.3	178.2	175.0
75°	141.8	139.6	136.2	138.7	135.6
77.5°	104.0	102.4	99.3	101.8	102.4
80°	69.5	67.6	66.1	68.3	68.9
82.5°	40.7	39.5	38.8	39.1	40.7
85°	19.7	18.2	18.2	18.5	18.5
87.5°	5.3	4.7	5.3	5.6	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)