

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: P975067

Luminaire Tested: FLR2-24-30HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975067
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

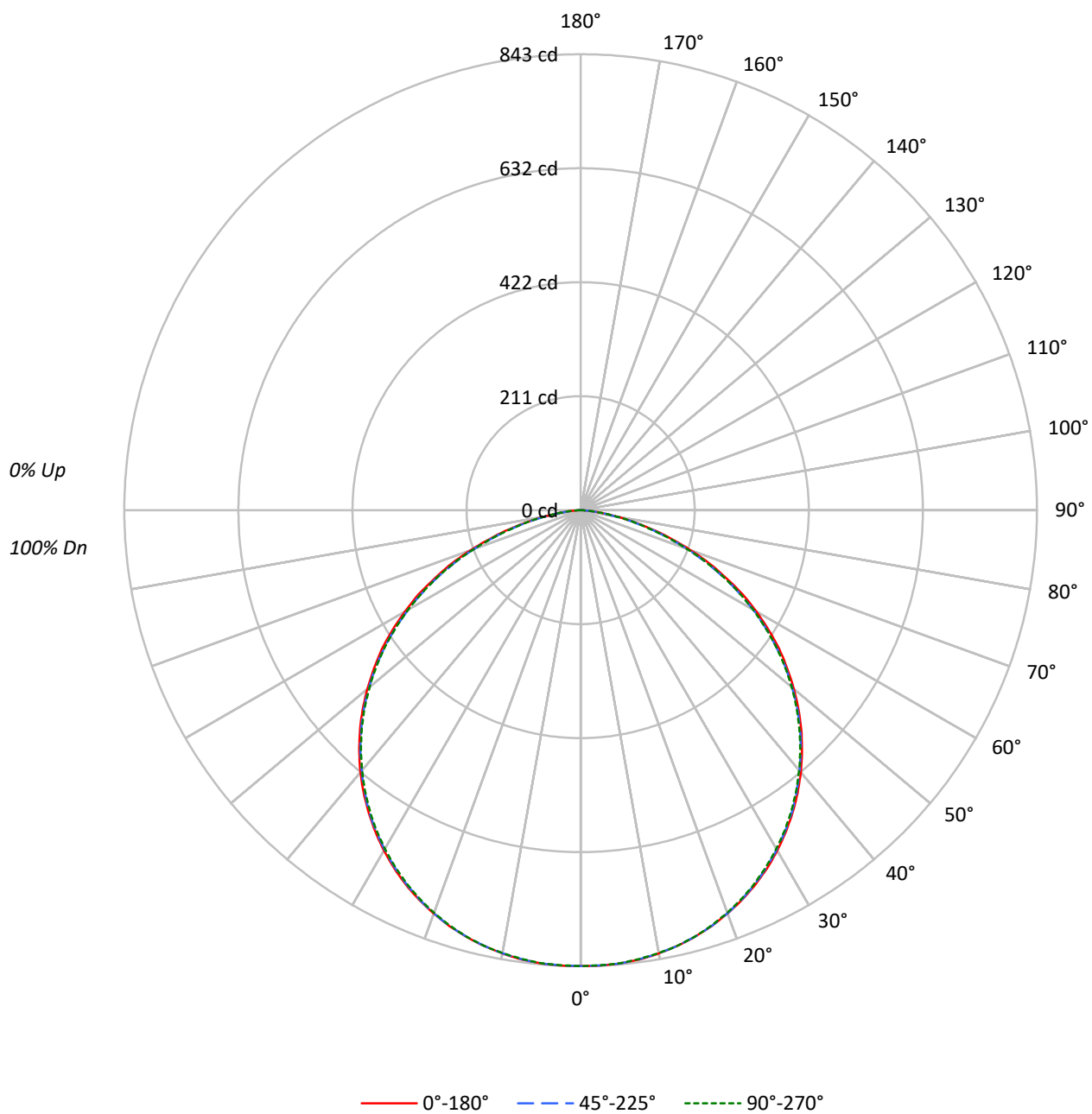
Lumens per Lamp: N/A
Luminaire Lumens: 2381.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1134	1134	1134
5°	1136	1136	1135
10°	1137	1137	1136
15°	1137	1137	1137
20°	1136	1136	1134
25°	1134	1132	1130
30°	1129	1126	1123
35°	1122	1119	1115
40°	1112	1105	1103
45°	1097	1091	1087
50°	1077	1068	1065
55°	1051	1036	1035
60°	1008	989	989
65°	942	920	923
70°	848	822	820
75°	712	684	680
80°	520	494	515
85°	295	270	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1097 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.4
10°-20°	230.5	9.7
20°-30°	351.4	14.8
30°-40°	425.7	17.9
40°-50°	442.2	18.6
50°-60°	395.6	16.6
60°-70°	288.3	12.1
70°-80°	142.8	6.0
80°-90°	25.5	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°	661.8	27.8
0°-40°	1087.5	45.7
0°-60°	1925.3	80.8
0°-90°	2381.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	841	842	841	841	841	80
15°	816	816	816	817	816	231
25°	764	763	762	762	761	352
35°	683	682	681	680	679	427
45°	577	576	573	572	572	444
55°	448	445	442	442	441	399
65°	296	294	289	290	290	293
75°	137	135	132	134	131	146
85°	19	18	18	18	18	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.8	842.8	842.8	842.8	842.8
2.5°	842.8	842.5	842.5	842.8	842.2
5°	841.3	841.6	841.3	841.3	840.7
7.5°	837.9	837.6	837.3	837.6	836.7
10°	832.2	832.2	831.9	832.2	831.6
12.5°	825.2	825.2	825.2	825.5	825.2
15°	816.5	816.2	816.2	816.8	816.2
17.5°	806.2	805.9	805.9	805.6	805.0
20°	793.5	793.5	793.2	792.9	792.0
22.5°	779.9	779.6	778.7	778.7	777.5
25°	763.9	762.9	762.3	762.0	761.1
27.5°	746.3	745.1	744.2	743.6	742.7
30°	726.7	725.4	724.5	723.6	723.0
32.5°	705.5	704.9	703.4	703.1	701.9
35°	682.8	681.9	681.0	679.8	678.6
37.5°	658.6	657.7	655.6	655.0	654.1
40°	632.9	631.7	629.0	629.0	628.1
42.5°	605.4	604.2	602.4	601.2	600.6
45°	576.7	575.5	573.3	572.1	571.5
47.5°	546.1	545.2	542.8	541.9	541.0
50°	514.4	513.2	510.4	509.8	508.9
52.5°	481.1	480.5	476.9	476.6	475.7
55°	448.2	444.8	441.8	441.8	441.2
57.5°	411.9	409.4	405.5	405.5	404.9
60°	374.4	372.3	367.7	368.3	367.7
62.5°	337.8	333.2	329.0	330.8	329.3
65°	296.0	293.6	289.1	290.3	290.0
67.5°	257.9	253.4	249.2	251.6	250.4
70°	215.6	213.2	209.0	211.4	208.4
72.5°	175.7	173.6	169.3	172.1	169.0
75°	137.0	134.9	131.5	134.0	130.9
77.5°	100.4	98.9	95.9	98.3	98.9
80°	67.1	65.3	63.8	65.9	66.5
82.5°	39.3	38.1	37.5	37.8	39.3
85°	19.1	17.5	17.5	17.8	17.8
87.5°	5.1	4.5	5.1	5.4	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)