

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: P974242

Luminaire Tested: FLR2-24-30-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974242
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: FLR2-24-30-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L935-CP187
Ballast/Driver: -

Summary

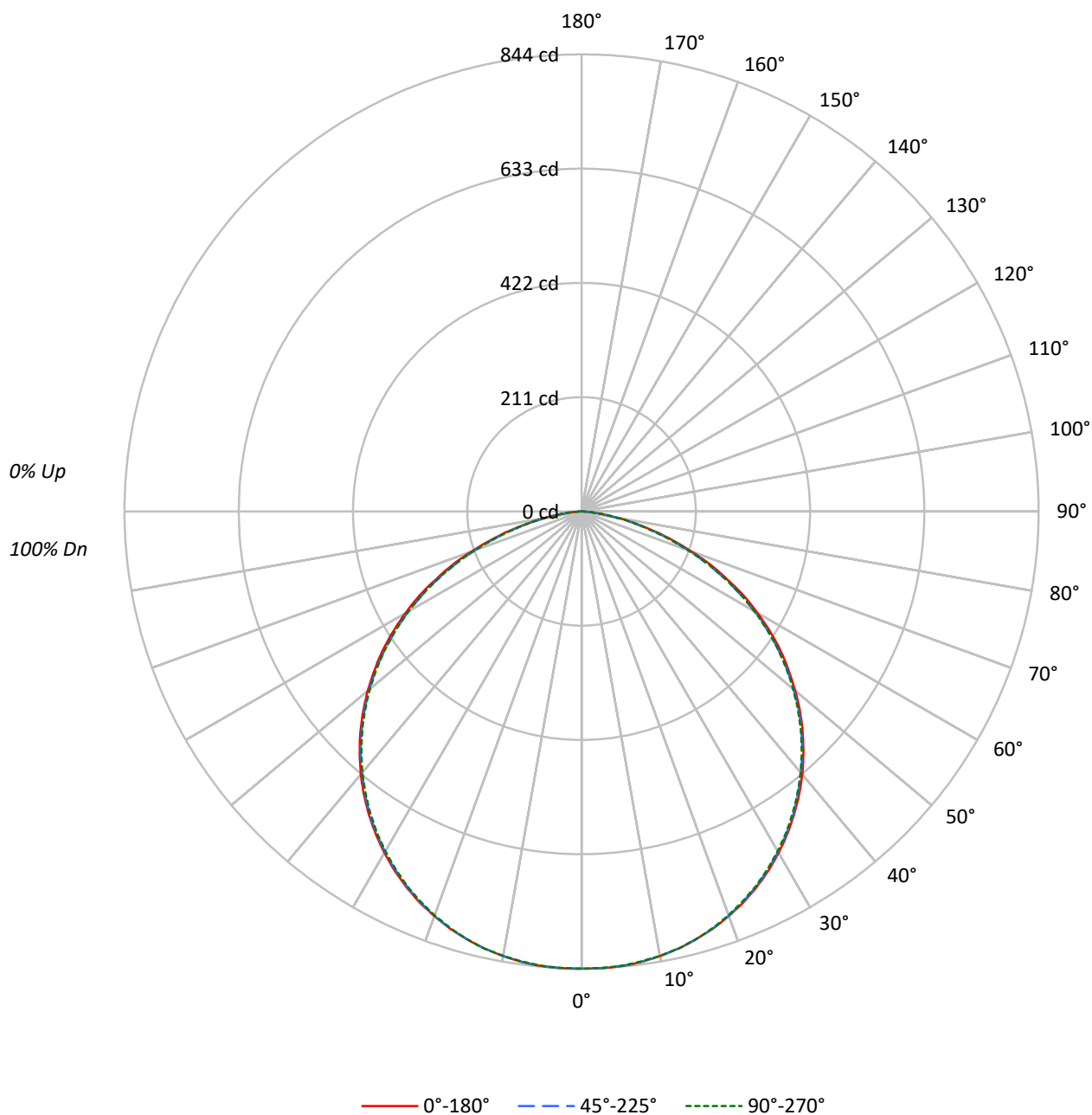
Lumens per Lamp: N/A
Luminaire Lumens: 2386.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.7
Input Voltage (V): 120
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°	1136	1136	1136
5°	1138	1138	1138
10°	1139	1139	1138
15°	1139	1139	1139
20°	1138	1138	1136
25°	1136	1134	1132
30°	1131	1128	1125
35°	1124	1121	1117
40°	1114	1107	1105
45°	1099	1093	1090
50°	1079	1070	1067
55°	1053	1038	1037
60°	1009	991	991
65°	944	922	925
70°	850	824	821
75°	713	685	682
80°	521	495	517
85°	295	272	276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	3.4
10°-20°	230.9	9.7
20°-30°	352.0	14.8
30°-40°	426.5	17.9
40°-50°	443.0	18.6
50°-60°	396.3	16.6
60°-70°	288.9	12.1
70°-80°	143.1	6.0
80°-90°	25.6	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°	663.1	27.8
0°-40°	1089.6	45.7
0°-60°	1929.0	80.8
0°-90°	2386.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2386.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	843	843	843	843	842	80
15°	818	818	818	818	818	231
25°	765	764	764	764	763	353
35°	684	683	682	681	680	428
45°	578	576	574	573	573	445
55°	449	446	443	443	442	400
65°	297	294	290	291	290	294
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°	844.4	844.4	844.4	844.4	844.4
2.5°	844.4	844.1	844.1	844.4	843.8
5°	842.9	843.2	842.9	842.9	842.3
7.5°	839.5	839.2	838.9	839.2	838.3
10°	833.8	833.8	833.5	833.8	833.2
12.5°	826.8	826.8	826.8	827.1	826.8
15°	818.0	817.7	817.7	818.3	817.7
17.5°	807.7	807.4	807.4	807.1	806.5
20°	795.0	795.0	794.7	794.4	793.5
22.5°	781.4	781.1	780.1	780.1	778.9
25°	765.3	764.4	763.8	763.5	762.6
27.5°	747.7	746.5	745.6	745.0	744.1
30°	728.0	726.8	725.9	725.0	724.4
32.5°	706.8	706.2	704.7	704.4	703.2
35°	684.1	683.2	682.3	681.1	679.9
37.5°	659.9	659.0	656.8	656.2	655.3
40°	634.1	632.9	630.2	630.2	629.3
42.5°	606.5	605.3	603.5	602.3	601.7
45°	577.8	576.5	574.4	573.2	572.6
47.5°	547.2	546.3	543.8	542.9	542.0
50°	515.4	514.1	511.4	510.8	509.9
52.5°	482.0	481.4	477.8	477.5	476.6
55°	449.0	445.7	442.6	442.6	442.0
57.5°	412.6	410.2	406.3	406.3	405.7
60°	375.1	373.0	368.4	369.0	368.4
62.5°	338.4	333.9	329.6	331.4	329.9
65°	296.6	294.2	289.6	290.9	290.5
67.5°	258.4	253.9	249.6	252.1	250.9
70°	216.0	213.6	209.4	211.8	208.7
72.5°	176.0	173.9	169.7	172.4	169.4
75°	137.2	135.1	131.8	134.2	131.2
77.5°	100.6	99.1	96.0	98.5	99.1
80°	67.3	65.4	63.9	66.0	66.7
82.5°	39.4	38.2	37.6	37.9	39.4
85°	19.1	17.6	17.6	17.9	17.9
87.5°	5.2	4.5	5.2	5.5	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)