

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: P974130

Luminaire Tested: FLR2-24-30-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974130
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-L930-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L930-CP187
Ballast/Driver: -

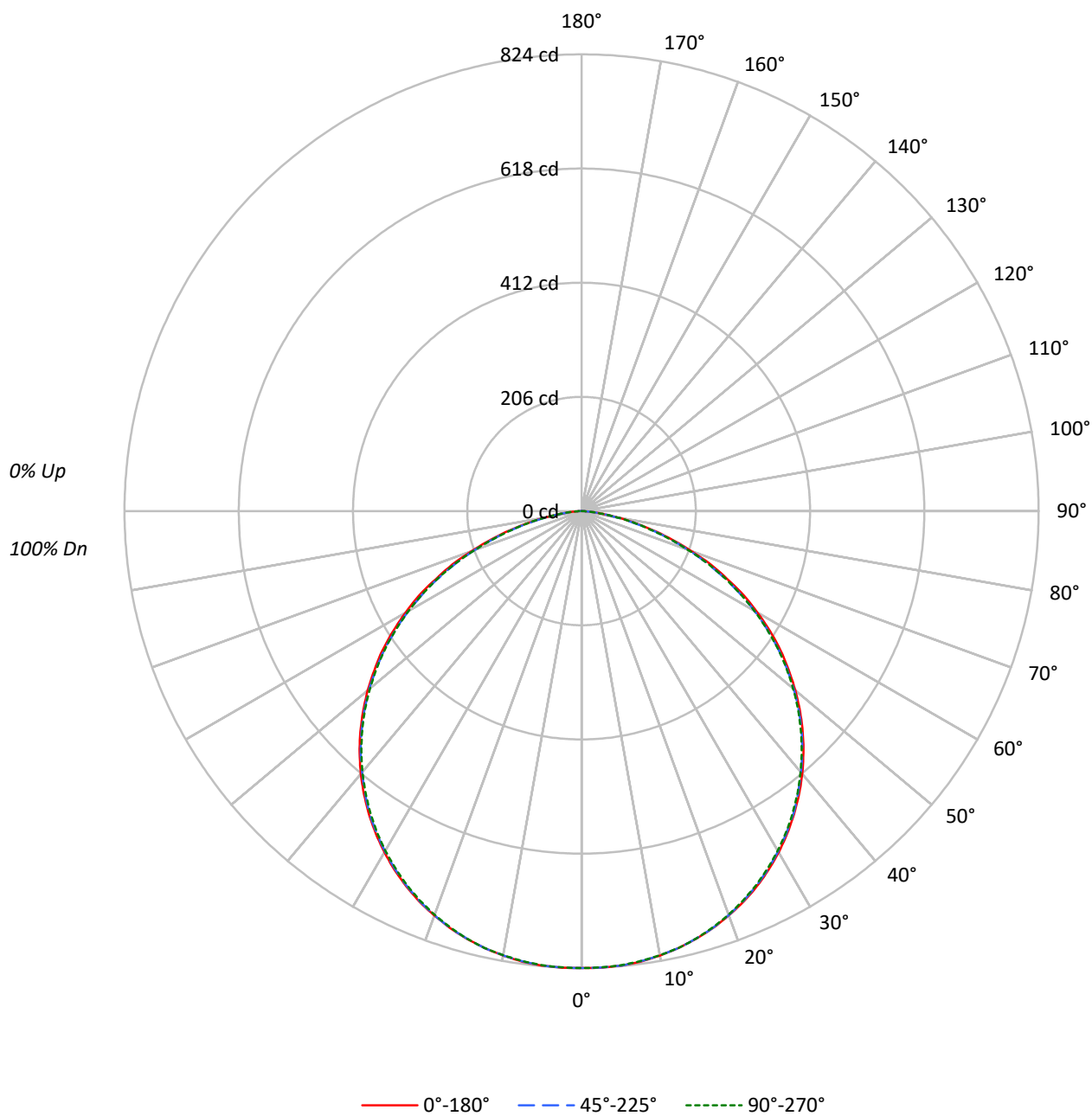
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2330.3 lumens
Efficiency: N/A
Efficacy: 98.3 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		
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°	1109	1109	1109
5°	1112	1112	1111
10°	1112	1112	1112
15°	1113	1112	1112
20°	1112	1111	1109
25°	1109	1107	1105
30°	1104	1101	1099
35°	1097	1094	1090
40°	1088	1081	1079
45°	1074	1067	1064
50°	1053	1045	1042
55°	1028	1014	1012
60°	986	968	968
65°	922	900	903
70°	830	804	802
75°	697	669	666
80°	509	483	504
85°	287	266	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.4
10°-20°	225.5	9.7
20°-30°	343.8	14.8
30°-40°	416.5	17.9
40°-50°	432.6	18.6
50°-60°	387.0	16.6
60°-70°	282.1	12.1
70°-80°	139.7	6.0
80°-90°	25.0	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°	647.5	27.8
0°-40°	1064.0	45.7
0°-60°	1883.6	80.8
0°-90°	2330.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	823	823	823	823	822	78
15°	799	798	798	799	798	226
25°	747	746	746	746	745	344
35°	668	667	666	665	664	418
45°	564	563	561	560	559	435
55°	438	435	432	432	432	391
65°	290	287	283	284	284	287
75°	134	132	129	131	128	143
85°	19	17	17	18	18	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.5	824.5	824.5	824.5	824.5
2.5°	824.5	824.2	824.2	824.5	823.9
5°	823.0	823.3	823.0	823.0	822.4
7.5°	819.8	819.5	819.2	819.5	818.6
10°	814.2	814.2	813.9	814.2	813.6
12.5°	807.3	807.3	807.3	807.6	807.3
15°	798.8	798.5	798.5	799.1	798.5
17.5°	788.7	788.4	788.4	788.1	787.5
20°	776.3	776.3	776.0	775.7	774.8
22.5°	763.0	762.7	761.8	761.8	760.6
25°	747.3	746.4	745.8	745.5	744.6
27.5°	730.1	729.0	728.1	727.5	726.6
30°	710.9	709.7	708.8	707.9	707.4
32.5°	690.2	689.6	688.1	687.8	686.6
35°	668.0	667.1	666.2	665.0	663.9
37.5°	644.3	643.5	641.4	640.8	639.9
40°	619.2	618.0	615.3	615.3	614.5
42.5°	592.3	591.1	589.3	588.1	587.5
45°	564.2	563.0	560.9	559.7	559.1
47.5°	534.3	533.4	531.0	530.1	529.3
50°	503.2	502.0	499.4	498.8	497.9
52.5°	470.7	470.1	466.5	466.2	465.4
55°	438.4	435.2	432.2	432.2	431.6
57.5°	402.9	400.6	396.7	396.7	396.1
60°	366.3	364.2	359.7	360.3	359.7
62.5°	330.5	326.0	321.9	323.6	322.2
65°	289.6	287.3	282.8	284.0	283.7
67.5°	252.4	247.9	243.8	246.1	245.0
70°	210.9	208.6	204.4	206.8	203.8
72.5°	171.9	169.8	165.7	168.3	165.4
75°	134.0	131.9	128.7	131.1	128.1
77.5°	98.2	96.7	93.8	96.1	96.7
80°	65.7	63.9	62.4	64.5	65.1
82.5°	38.5	37.3	36.7	37.0	38.5
85°	18.6	17.2	17.2	17.5	17.5
87.5°	5.0	4.4	5.0	5.3	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)