

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: P974138

Luminaire Tested: FLR2-24-30-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974138
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L930-CP250
Ballast/Driver: -

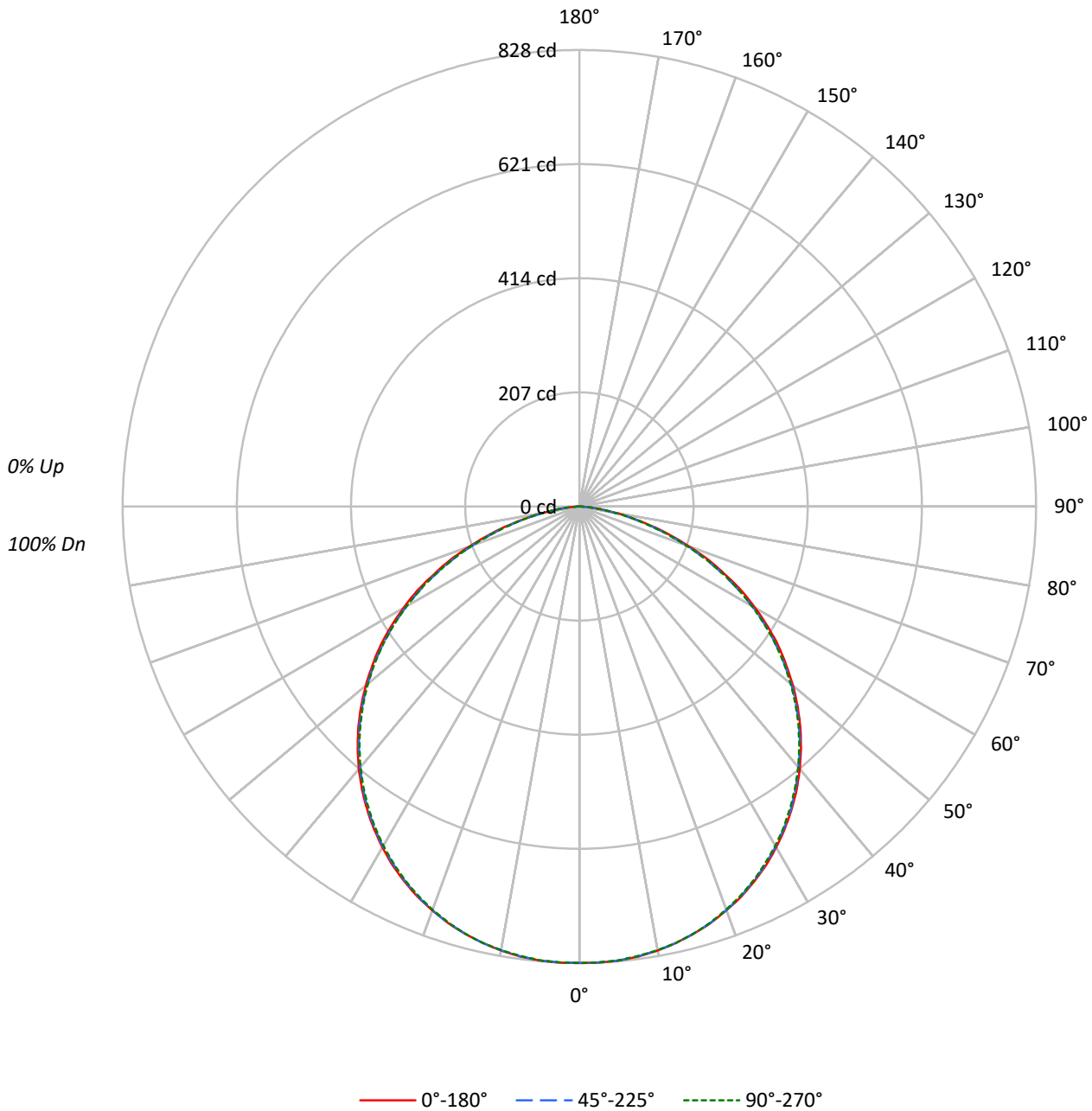
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2340.6 lumens
Efficiency: N/A
Efficacy: 98.8 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): 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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	1114	1114	1114
5°	1117	1117	1116
10°	1117	1117	1116
15°	1118	1117	1117
20°	1116	1116	1114
25°	1114	1112	1110
30°	1109	1106	1104
35°	1102	1099	1095
40°	1092	1086	1084
45°	1078	1072	1069
50°	1058	1050	1047
55°	1033	1018	1017
60°	990	972	972
65°	926	904	907
70°	834	808	805
75°	700	672	669
80°	511	486	507
85°	289	266	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1078 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	226.5	9.7
20°-30°	345.3	14.8
30°-40°	418.3	17.9
40°-50°	434.5	18.6
50°-60°	388.7	16.6
60°-70°	283.3	12.1
70°-80°	140.3	6.0
80°-90°	25.1	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°	650.4	27.8
0°-40°	1068.7	45.7
0°-60°	1891.9	80.8
0°-90°	2340.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	827	827	827	827	826	79
15°	802	802	802	803	802	227
25°	751	750	749	749	748	346
35°	671	670	669	668	667	420
45°	567	566	563	562	562	437
55°	440	437	434	434	434	392
65°	291	288	284	285	285	288
75°	135	132	129	132	129	144
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°	828.2	828.2	828.2	828.2	828.2
2.5°	828.2	827.9	827.9	828.2	827.6
5°	826.7	827.0	826.7	826.7	826.1
7.5°	823.4	823.1	822.8	823.1	822.2
10°	817.8	817.8	817.5	817.8	817.2
12.5°	810.9	810.9	810.9	811.2	810.9
15°	802.3	802.0	802.0	802.6	802.0
17.5°	792.2	791.9	791.9	791.6	791.0
20°	779.7	779.7	779.4	779.1	778.2
22.5°	766.4	766.1	765.2	765.2	764.0
25°	750.6	749.7	749.1	748.8	747.9
27.5°	733.4	732.2	731.3	730.7	729.8
30°	714.1	712.9	712.0	711.1	710.5
32.5°	693.3	692.7	691.2	690.9	689.7
35°	671.0	670.1	669.2	668.0	666.8
37.5°	647.2	646.3	644.2	643.6	642.7
40°	621.9	620.7	618.1	618.1	617.2
42.5°	594.9	593.7	591.9	590.7	590.1
45°	566.7	565.5	563.4	562.2	561.6
47.5°	536.7	535.8	533.4	532.5	531.6
50°	505.5	504.3	501.6	501.0	500.1
52.5°	472.8	472.2	468.6	468.3	467.4
55°	440.4	437.1	434.1	434.1	433.5
57.5°	404.7	402.3	398.5	398.5	397.9
60°	367.9	365.8	361.3	361.9	361.3
62.5°	331.9	327.5	323.3	325.1	323.6
65°	290.9	288.5	284.1	285.3	285.0
67.5°	253.5	249.0	244.9	247.2	246.0
70°	211.9	209.5	205.3	207.7	204.7
72.5°	172.6	170.6	166.4	169.1	166.1
75°	134.6	132.5	129.3	131.6	128.7
77.5°	98.7	97.2	94.2	96.6	97.2
80°	66.0	64.2	62.7	64.8	65.4
82.5°	38.6	37.4	36.8	37.1	38.6
85°	18.7	17.2	17.2	17.5	17.5
87.5°	5.1	4.5	5.1	5.3	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)