

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: P974338

Luminaire Tested: FLR2-24-30-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974338
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-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L940-CP080
Ballast/Driver: -

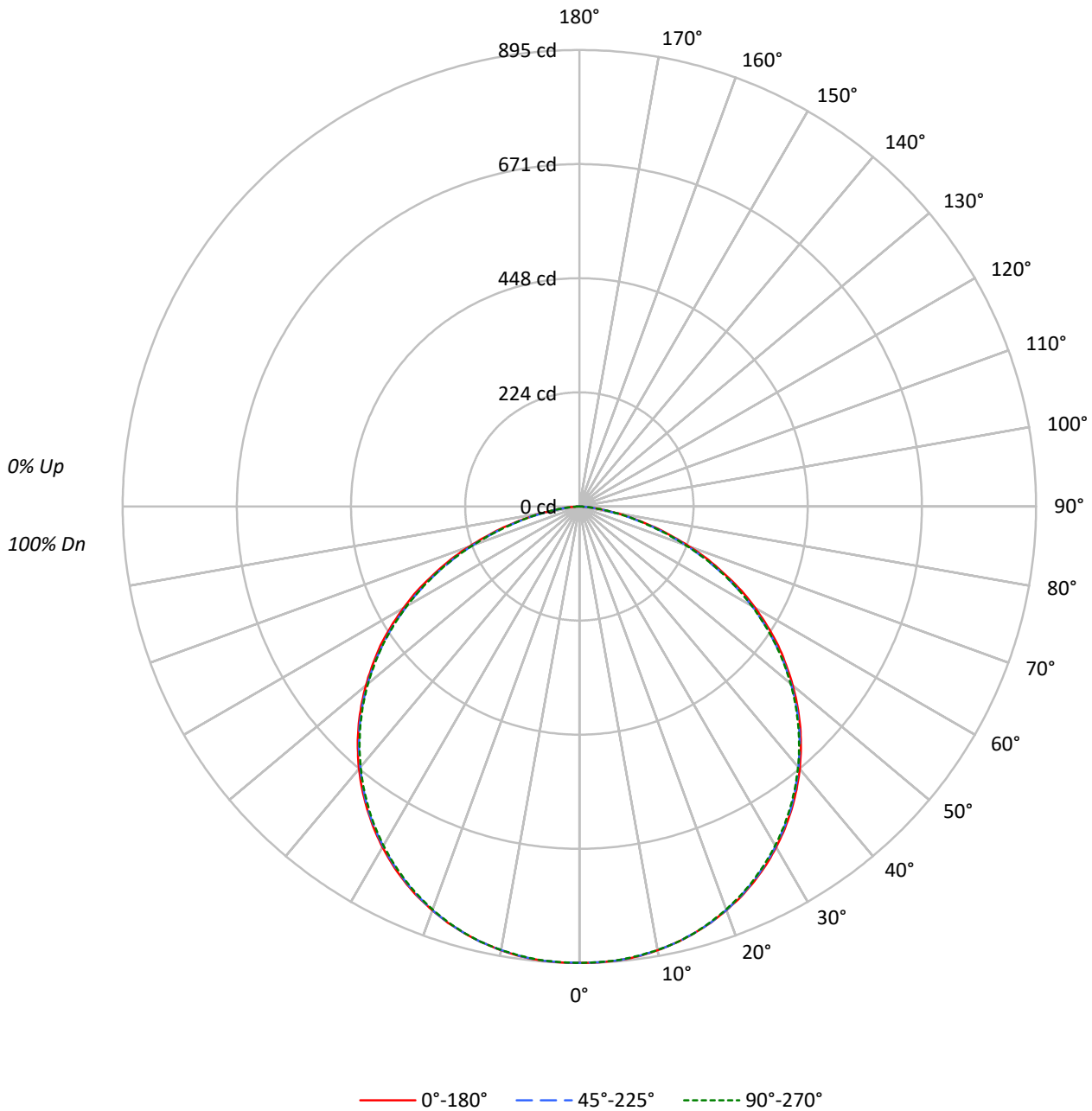
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2529.1 lumens
Efficiency: N/A
Efficacy: 106.7 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				10	0
RW	70	50	30	10	70	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
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°	1204	1204	1204
5°	1206	1206	1206
10°	1207	1207	1206
15°	1208	1207	1207
20°	1206	1206	1204
25°	1204	1202	1200
30°	1199	1195	1193
35°	1191	1188	1183
40°	1180	1173	1171
45°	1165	1158	1155
50°	1143	1135	1131
55°	1116	1100	1099
60°	1070	1051	1051
65°	1001	977	980
70°	900	873	870
75°	756	726	723
80°	552	525	547
85°	312	287	292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1165 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.4
10°-20°	244.7	9.7
20°-30°	373.1	14.8
30°-40°	452.0	17.9
40°-50°	469.5	18.6
50°-60°	420.0	16.6
60°-70°	306.1	12.1
70°-80°	151.6	6.0
80°-90°	27.1	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°	702.7	27.8
0°-40°	1154.7	45.7
0°-60°	2044.3	80.8
0°-90°	2529.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	893	894	893	893	893	85
15°	867	867	867	867	867	245
25°	811	810	809	809	808	374
35°	725	724	723	722	720	453
45°	612	611	609	608	607	472
55°	476	472	469	469	468	424
65°	314	312	307	308	308	312
75°	145	143	140	142	139	155
85°	20	19	19	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.8	894.8	894.8	894.8	894.8
2.5°	894.8	894.5	894.5	894.8	894.2
5°	893.2	893.6	893.2	893.2	892.6
7.5°	889.7	889.4	889.1	889.4	888.4
10°	883.6	883.6	883.3	883.6	883.0
12.5°	876.2	876.2	876.2	876.5	876.2
15°	866.9	866.6	866.6	867.2	866.6
17.5°	856.0	855.7	855.7	855.4	854.7
20°	842.5	842.5	842.2	841.9	840.9
22.5°	828.1	827.7	826.8	826.8	825.5
25°	811.0	810.1	809.4	809.1	808.2
27.5°	792.4	791.1	790.2	789.5	788.6
30°	771.6	770.3	769.3	768.3	767.7
32.5°	749.1	748.4	746.8	746.5	745.2
35°	725.0	724.0	723.1	721.8	720.5
37.5°	699.3	698.3	696.1	695.5	694.5
40°	672.0	670.7	667.8	667.8	666.9
42.5°	642.8	641.5	639.6	638.3	637.7
45°	612.3	611.0	608.8	607.5	606.8
47.5°	579.9	578.9	576.3	575.4	574.4
50°	546.2	544.9	542.0	541.3	540.4
52.5°	510.8	510.2	506.3	506.0	505.1
55°	475.8	472.3	469.1	469.1	468.5
57.5°	437.3	434.7	430.6	430.6	429.9
60°	397.5	395.2	390.4	391.1	390.4
62.5°	358.6	353.8	349.3	351.3	349.7
65°	314.3	311.8	307.0	308.2	307.9
67.5°	273.9	269.1	264.6	267.1	265.9
70°	228.9	226.4	221.9	224.4	221.2
72.5°	186.5	184.3	179.8	182.7	179.5
75°	145.4	143.2	139.7	142.2	139.0
77.5°	106.6	105.0	101.8	104.4	105.0
80°	71.3	69.4	67.7	70.0	70.6
82.5°	41.7	40.5	39.8	40.1	41.7
85°	20.2	18.6	18.6	18.9	18.9
87.5°	5.5	4.8	5.5	5.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)