

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: P974058

Luminaire Tested: FLR2-24-30-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974058
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-L830-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L830-CP080
Ballast/Driver: -

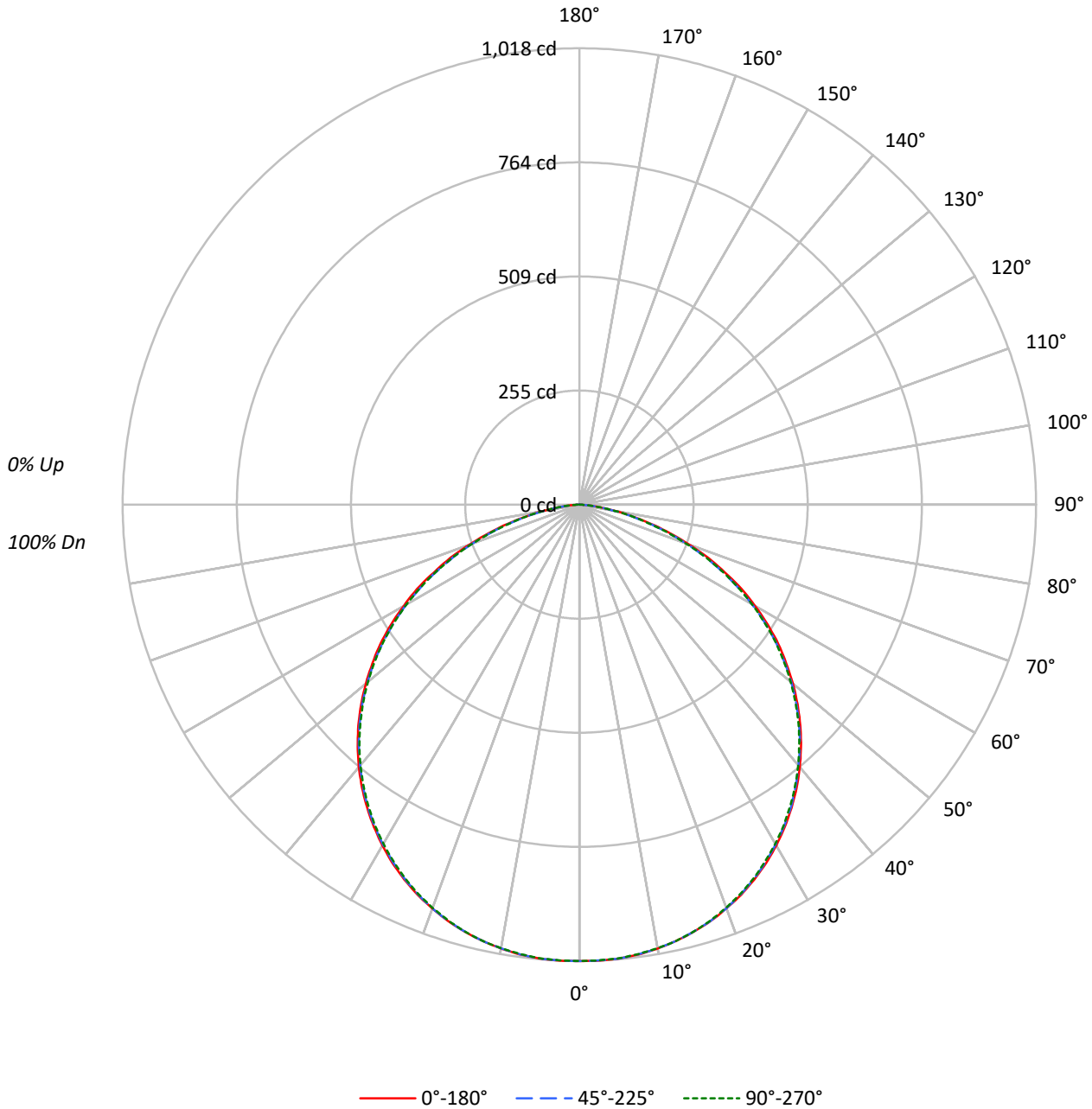
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 121.4 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°	1370	1370	1370
5°	1373	1373	1372
10°	1374	1373	1373
15°	1374	1374	1374
20°	1373	1372	1370
25°	1370	1367	1365
30°	1364	1360	1357
35°	1355	1351	1347
40°	1343	1335	1333
45°	1326	1318	1314
50°	1301	1291	1287
55°	1270	1252	1251
60°	1217	1196	1196
65°	1139	1112	1116
70°	1025	993	990
75°	860	826	822
80°	628	597	623
85°	355	327	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1326 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	278.4	9.7
20°-30°	424.5	14.8
30°-40°	514.4	17.9
40°-50°	534.3	18.6
50°-60°	478.0	16.6
60°-70°	348.4	12.1
70°-80°	172.5	6.0
80°-90°	30.8	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°	799.6	27.8
0°-40°	1314.0	45.7
0°-60°	2326.3	80.8
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1016	1017	1016	1016	1016	97
15°	986	986	986	987	986	279
25°	923	922	921	921	920	425
35°	825	824	823	821	820	516
45°	697	695	693	691	690	537
55°	542	538	534	534	533	482
65°	358	355	349	351	350	355
75°	166	163	159	162	158	176
85°	23	21	21	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1018.3	1017.9	1017.9	1018.3	1017.5
5°	1016.4	1016.8	1016.4	1016.4	1015.7
7.5°	1012.4	1012.1	1011.7	1012.1	1011.0
10°	1005.5	1005.5	1005.1	1005.5	1004.8
12.5°	997.1	997.1	997.1	997.4	997.1
15°	986.5	986.1	986.1	986.9	986.1
17.5°	974.1	973.7	973.7	973.3	972.6
20°	958.7	958.7	958.4	958.0	956.9
22.5°	942.3	941.9	940.8	940.8	939.4
25°	922.9	921.8	921.1	920.7	919.6
27.5°	901.7	900.3	899.2	898.4	897.3
30°	878.0	876.5	875.4	874.3	873.6
32.5°	852.4	851.7	849.8	849.5	848.0
35°	825.0	823.9	822.8	821.3	819.9
37.5°	795.8	794.7	792.1	791.4	790.3
40°	764.7	763.2	760.0	760.0	758.9
42.5°	731.5	730.0	727.8	726.3	725.6
45°	696.8	695.3	692.7	691.3	690.5
47.5°	659.9	658.8	655.8	654.7	653.6
50°	621.5	620.0	616.7	616.0	614.9
52.5°	581.3	580.6	576.2	575.8	574.7
55°	541.5	537.5	533.8	533.8	533.1
57.5°	497.6	494.7	490.0	490.0	489.2
60°	452.3	449.8	444.3	445.0	444.3
62.5°	408.1	402.6	397.5	399.7	397.9
65°	357.7	354.8	349.3	350.8	350.4
67.5°	311.7	306.2	301.1	304.0	302.5
70°	260.5	257.6	252.5	255.4	251.7
72.5°	212.3	209.7	204.6	207.9	204.2
75°	165.5	163.0	158.9	161.9	158.2
77.5°	121.3	119.5	115.8	118.7	119.5
80°	81.1	78.9	77.1	79.6	80.4
82.5°	47.5	46.0	45.3	45.7	47.5
85°	23.0	21.2	21.2	21.6	21.6
87.5°	6.2	5.5	6.2	6.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)