

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: P974074

Luminaire Tested: FLR2-24-30-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974074
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L830-CP187
Ballast/Driver: -

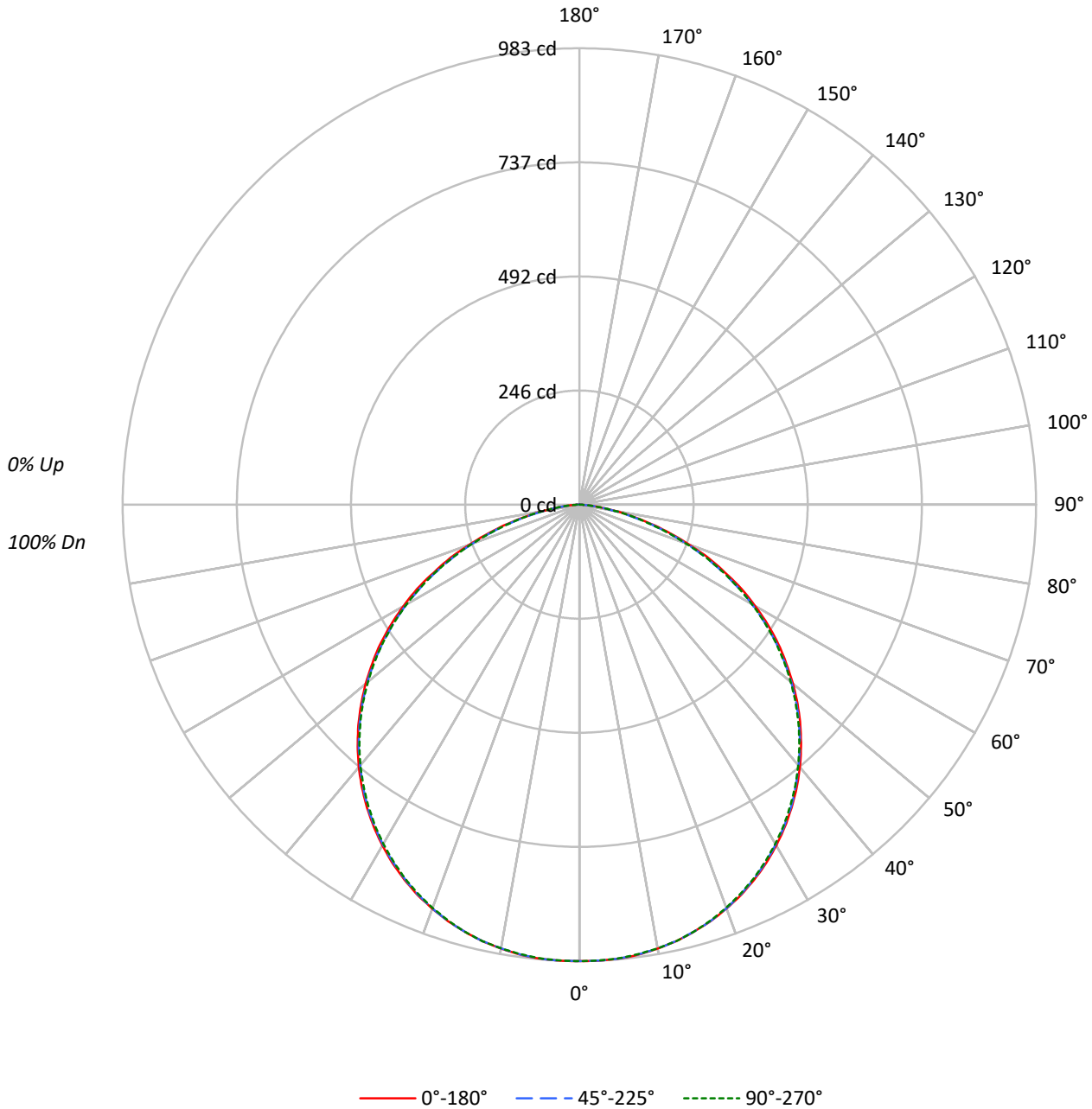
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2779.5 lumens
Efficiency: N/A
Efficacy: 117.3 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										
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°	1323	1323	1323
5°	1326	1326	1325
10°	1327	1326	1326
15°	1327	1327	1327
20°	1326	1325	1323
25°	1323	1321	1319
30°	1317	1314	1311
35°	1309	1305	1301
40°	1297	1289	1287
45°	1280	1273	1269
50°	1256	1247	1243
55°	1227	1209	1208
60°	1176	1155	1155
65°	1100	1074	1077
70°	990	959	956
75°	831	798	794
80°	607	577	601
85°	343	316	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.4
10°-20°	268.9	9.7
20°-30°	410.0	14.8
30°-40°	496.8	17.9
40°-50°	516.0	18.6
50°-60°	461.6	16.6
60°-70°	336.4	12.1
70°-80°	166.6	6.0
80°-90°	29.8	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°	772.3	27.8
0°-40°	1269.1	45.7
0°-60°	2246.7	80.8
0°-90°	2779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	982	982	982	982	981	93
15°	953	952	952	953	952	269
25°	891	890	890	889	888	411
35°	797	796	795	793	792	498
45°	673	672	669	668	667	519
55°	523	519	516	516	515	466
65°	346	343	337	339	338	343
75°	160	157	154	156	153	170
85°	22	20	20	21	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.4	983.4	983.4	983.4	983.4
2.5°	983.4	983.1	983.1	983.4	982.7
5°	981.7	982.0	981.7	981.7	981.0
7.5°	977.8	977.4	977.1	977.4	976.4
10°	971.1	971.1	970.7	971.1	970.4
12.5°	963.0	963.0	963.0	963.3	963.0
15°	952.7	952.4	952.4	953.1	952.4
17.5°	940.8	940.4	940.4	940.0	939.3
20°	925.9	925.9	925.6	925.2	924.2
22.5°	910.1	909.7	908.6	908.6	907.2
25°	891.3	890.3	889.6	889.2	888.2
27.5°	870.9	869.5	868.4	867.7	866.6
30°	847.9	846.5	845.5	844.4	843.7
32.5°	823.2	822.5	820.8	820.4	819.0
35°	796.8	795.7	794.7	793.3	791.8
37.5°	768.6	767.5	765.0	764.3	763.3
40°	738.6	737.1	734.0	734.0	732.9
42.5°	706.4	705.0	702.9	701.5	700.8
45°	672.9	671.5	669.0	667.6	666.9
47.5°	637.3	636.2	633.4	632.3	631.3
50°	600.2	598.8	595.6	594.9	593.9
52.5°	561.4	560.7	556.5	556.1	555.1
55°	523.0	519.1	515.5	515.5	514.8
57.5°	480.6	477.8	473.2	473.2	472.5
60°	436.9	434.4	429.1	429.8	429.1
62.5°	394.2	388.9	383.9	386.0	384.3
65°	345.5	342.6	337.3	338.8	338.4
67.5°	301.0	295.7	290.8	293.6	292.2
70°	251.6	248.8	243.8	246.7	243.1
72.5°	205.0	202.5	197.6	200.8	197.3
75°	159.8	157.4	153.5	156.3	152.8
77.5°	117.2	115.4	111.9	114.7	115.4
80°	78.3	76.2	74.5	76.9	77.6
82.5°	45.9	44.5	43.8	44.1	45.9
85°	22.2	20.5	20.5	20.8	20.8
87.5°	6.0	5.3	6.0	6.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)