

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: P974066

Luminaire Tested: FLR2-24-30-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974066
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L830-CP125
Ballast/Driver: -

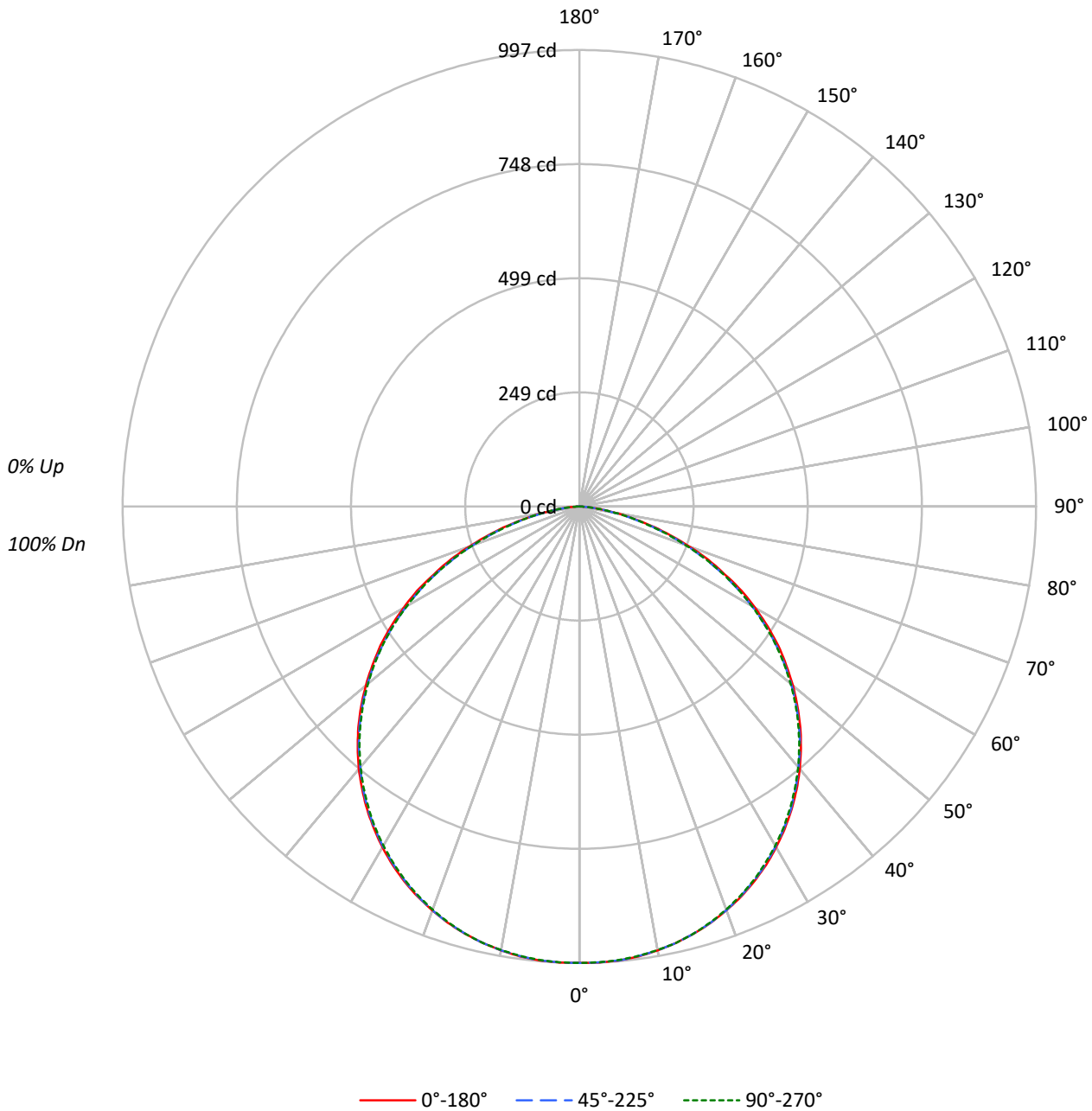
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2818.1 lumens
Efficiency: N/A
Efficacy: 118.9 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1342	1342	1342
5°	1344	1344	1343
10°	1345	1345	1344
15°	1346	1345	1345
20°	1344	1344	1342
25°	1342	1339	1337
30°	1336	1332	1329
35°	1327	1323	1319
40°	1315	1307	1305
45°	1298	1291	1287
50°	1274	1264	1260
55°	1244	1226	1225
60°	1192	1171	1171
65°	1115	1089	1092
70°	1004	972	970
75°	843	809	805
80°	615	585	610
85°	347	321	326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	272.7	9.7
20°-30°	415.7	14.8
30°-40°	503.7	17.9
40°-50°	523.2	18.6
50°-60°	468.0	16.6
60°-70°	341.1	12.1
70°-80°	168.9	6.0
80°-90°	30.2	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°	783.0	27.8
0°-40°	1286.7	45.7
0°-60°	2277.8	80.8
0°-90°	2818.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	995	996	995	995	995	95
15°	966	966	966	966	966	273
25°	904	903	902	902	900	417
35°	808	807	806	804	803	505
45°	682	681	678	677	676	526
55°	530	526	523	523	522	472
65°	350	347	342	344	343	347
75°	162	160	156	158	155	173
85°	22	21	21	21	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.1	997.1	997.1	997.1	997.1
2.5°	997.1	996.7	996.7	997.1	996.4
5°	995.3	995.7	995.3	995.3	994.6
7.5°	991.4	991.0	990.6	991.0	989.9
10°	984.6	984.6	984.2	984.6	983.8
12.5°	976.3	976.3	976.3	976.7	976.3
15°	966.0	965.6	965.6	966.3	965.6
17.5°	953.8	953.4	953.4	953.1	952.4
20°	938.8	938.8	938.4	938.1	937.0
22.5°	922.7	922.3	921.2	921.2	919.8
25°	903.7	902.6	901.9	901.6	900.5
27.5°	883.0	881.5	880.5	879.7	878.7
30°	859.7	858.3	857.2	856.1	855.4
32.5°	834.7	833.9	832.2	831.8	830.4
35°	807.8	806.8	805.7	804.2	802.8
37.5°	779.2	778.1	775.6	774.9	773.8
40°	748.8	747.4	744.1	744.1	743.1
42.5°	716.2	714.8	712.7	711.2	710.5
45°	682.3	680.8	678.3	676.9	676.2
47.5°	646.1	645.0	642.2	641.1	640.0
50°	608.6	607.1	603.9	603.2	602.1
52.5°	569.2	568.5	564.2	563.8	562.8
55°	530.2	526.3	522.7	522.7	522.0
57.5°	487.3	484.4	479.8	479.8	479.0
60°	442.9	440.4	435.0	435.8	435.0
62.5°	399.6	394.3	389.2	391.4	389.6
65°	350.2	347.4	342.0	343.5	343.1
67.5°	305.2	299.8	294.8	297.7	296.2
70°	255.1	252.2	247.2	250.1	246.5
72.5°	207.9	205.4	200.3	203.6	200.0
75°	162.1	159.6	155.6	158.5	154.9
77.5°	118.8	117.0	113.4	116.3	117.0
80°	79.4	77.3	75.5	78.0	78.7
82.5°	46.5	45.1	44.4	44.7	46.5
85°	22.5	20.8	20.8	21.1	21.1
87.5°	6.1	5.4	6.1	6.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)