

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: P974106

Luminaire Tested: FLR2-24-30-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974106
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L830-CA125
Ballast/Driver: -

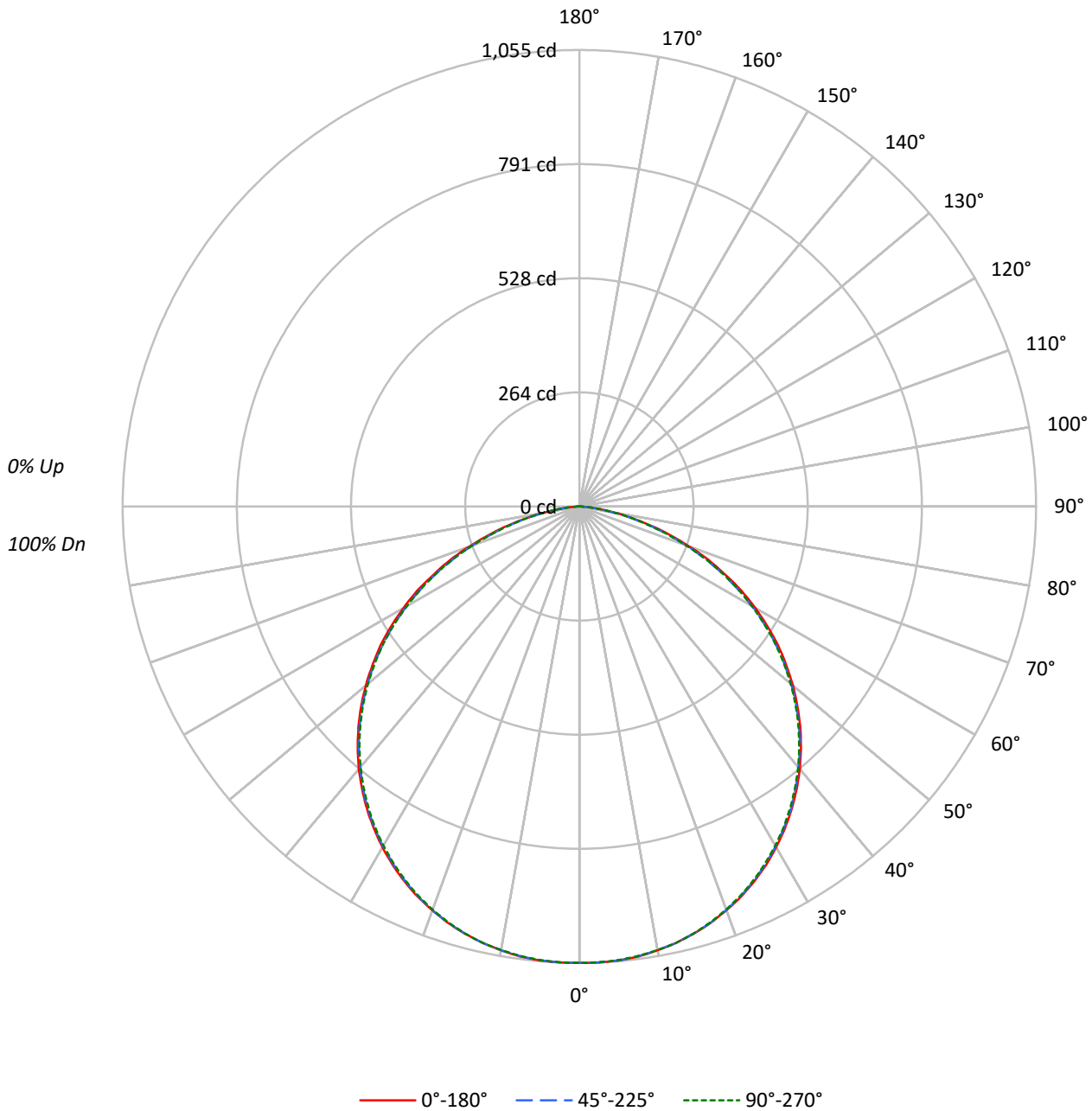
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2981.8 lumens
Efficiency: N/A
Efficacy: 125.8 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°	1419	1419	1419
5°	1422	1422	1421
10°	1423	1423	1422
15°	1424	1423	1423
20°	1422	1422	1420
25°	1420	1417	1415
30°	1413	1409	1406
35°	1404	1400	1395
40°	1392	1383	1381
45°	1374	1366	1361
50°	1348	1338	1334
55°	1316	1297	1296
60°	1261	1239	1239
65°	1180	1152	1156
70°	1062	1029	1026
75°	892	856	852
80°	651	619	645
85°	367	340	344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.4
10°-20°	288.5	9.7
20°-30°	439.9	14.8
30°-40°	532.9	17.9
40°-50°	553.6	18.6
50°-60°	495.2	16.6
60°-70°	360.9	12.1
70°-80°	178.7	6.0
80°-90°	31.9	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°	828.5	27.8
0°-40°	1361.4	45.7
0°-60°	2410.2	80.8
0°-90°	2981.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2981.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1053	1054	1053	1053	1052	100
15°	1022	1022	1022	1022	1022	289
25°	956	955	954	954	953	441
35°	855	854	852	851	850	535
45°	722	720	718	716	716	556
55°	561	557	553	553	552	500
65°	371	368	362	363	363	367
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.0	1055.0	1055.0	1055.0	1055.0
2.5°	1055.0	1054.7	1054.7	1055.0	1054.3
5°	1053.1	1053.5	1053.1	1053.1	1052.4
7.5°	1049.0	1048.6	1048.2	1048.6	1047.5
10°	1041.8	1041.8	1041.4	1041.8	1041.0
12.5°	1033.1	1033.1	1033.1	1033.5	1033.1
15°	1022.1	1021.7	1021.7	1022.5	1021.7
17.5°	1009.2	1008.8	1008.8	1008.5	1007.7
20°	993.3	993.3	992.9	992.6	991.4
22.5°	976.3	975.9	974.8	974.8	973.3
25°	956.2	955.1	954.3	954.0	952.8
27.5°	934.3	932.8	931.6	930.9	929.7
30°	909.7	908.2	907.0	905.9	905.1
32.5°	883.2	882.4	880.5	880.1	878.6
35°	854.8	853.6	852.5	851.0	849.5
37.5°	824.5	823.4	820.7	820.0	818.8
40°	792.3	790.8	787.4	787.4	786.3
42.5°	757.9	756.4	754.1	752.6	751.8
45°	721.9	720.4	717.7	716.2	715.5
47.5°	683.7	682.5	679.5	678.4	677.2
50°	643.9	642.4	639.0	638.2	637.1
52.5°	602.3	601.5	597.0	596.6	595.5
55°	561.0	556.9	553.1	553.1	552.3
57.5°	515.6	512.6	507.6	507.6	506.9
60°	468.7	466.0	460.3	461.1	460.3
62.5°	422.8	417.2	411.9	414.1	412.2
65°	370.6	367.6	361.9	363.4	363.0
67.5°	322.9	317.2	311.9	315.0	313.4
70°	269.9	266.9	261.6	264.6	260.8
72.5°	219.9	217.3	212.0	215.4	211.6
75°	171.5	168.8	164.7	167.7	163.9
77.5°	125.7	123.8	120.0	123.0	123.8
80°	84.0	81.8	79.9	82.5	83.3
82.5°	49.2	47.7	46.9	47.3	49.2
85°	23.8	22.0	22.0	22.3	22.3
87.5°	6.4	5.7	6.4	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)