

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: P974124

Luminaire Tested: FLR2-24-40-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974124
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: FLR2-24-40-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L930-CP125
Ballast/Driver: -

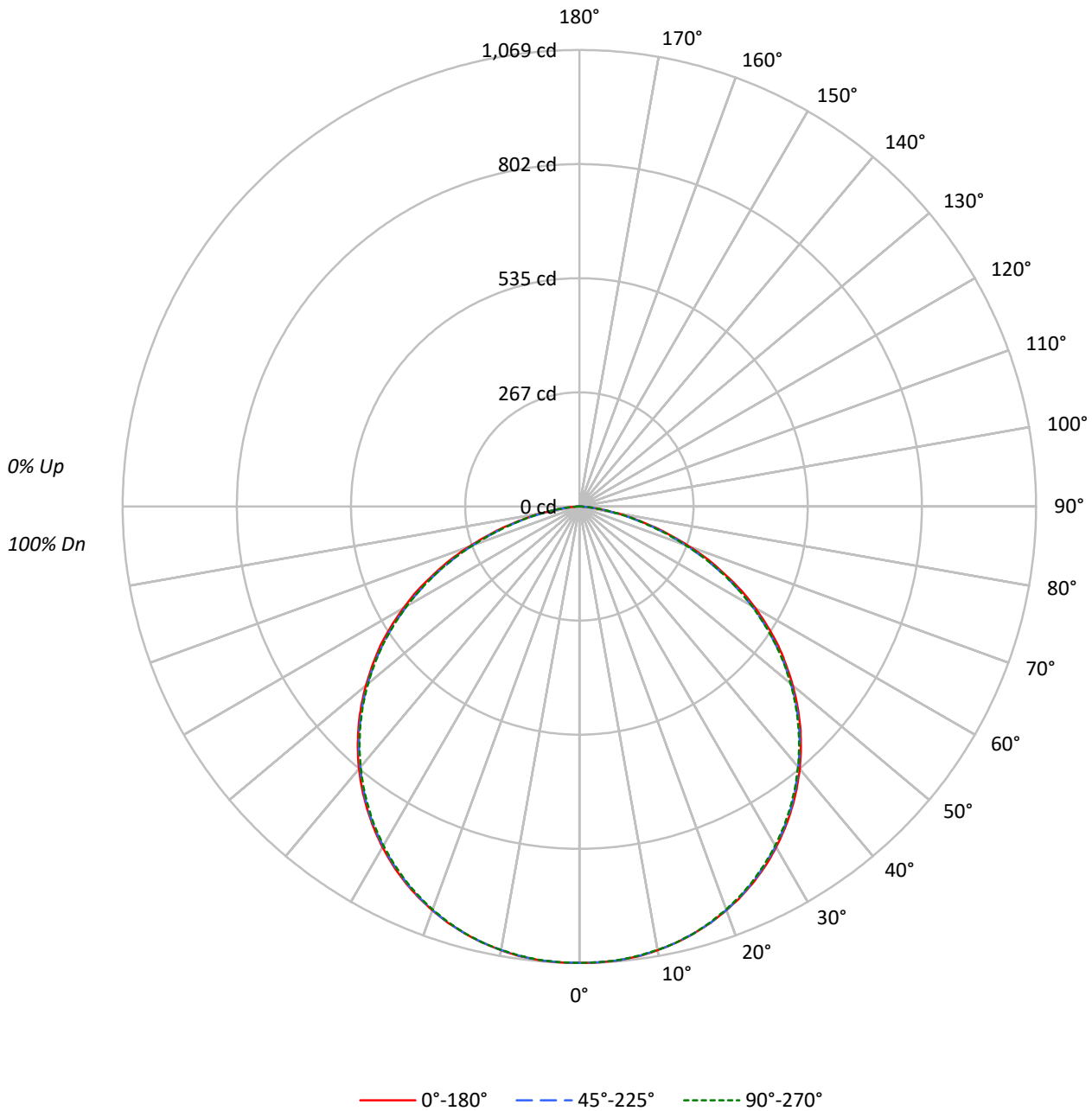
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3020.7 lumens
Efficiency: N/A
Efficacy: 99.7 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): 30.3
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°	1438	1438	1438
5°	1441	1441	1440
10°	1442	1441	1441
15°	1442	1442	1442
20°	1441	1440	1438
25°	1438	1435	1433
30°	1432	1427	1425
35°	1422	1418	1413
40°	1410	1401	1399
45°	1392	1384	1379
50°	1365	1355	1351
55°	1333	1314	1312
60°	1278	1255	1255
65°	1195	1167	1171
70°	1076	1042	1039
75°	903	867	863
80°	659	627	654
85°	374	343	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1392 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.4
10°-20°	292.3	9.7
20°-30°	445.6	14.8
30°-40°	539.9	17.9
40°-50°	560.8	18.6
50°-60°	501.7	16.6
60°-70°	365.6	12.1
70°-80°	181.1	6.0
80°-90°	32.4	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°	839.3	27.8
0°-40°	1379.2	45.7
0°-60°	2441.6	80.8
0°-90°	3020.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1067	1067	1067	1067	1066	101
15°	1035	1035	1035	1036	1035	292
25°	969	968	967	966	965	446
35°	866	865	864	862	860	542
45°	731	730	727	726	725	564
55°	568	564	560	560	560	506
65°	375	372	367	368	368	372
75°	174	171	167	170	166	185
85°	24	22	22	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.8	1068.8	1068.8	1068.8	1068.8
2.5°	1068.8	1068.4	1068.4	1068.8	1068.0
5°	1066.8	1067.2	1066.8	1066.8	1066.1
7.5°	1062.6	1062.2	1061.9	1062.2	1061.1
10°	1055.3	1055.3	1055.0	1055.3	1054.6
12.5°	1046.5	1046.5	1046.5	1046.9	1046.5
15°	1035.4	1035.0	1035.0	1035.8	1035.0
17.5°	1022.4	1022.0	1022.0	1021.6	1020.8
20°	1006.3	1006.3	1005.9	1005.5	1004.3
22.5°	989.0	988.6	987.5	987.5	985.9
25°	968.7	967.5	966.8	966.4	965.2
27.5°	946.4	944.9	943.8	943.0	941.8
30°	921.5	920.0	918.8	917.7	916.9
32.5°	894.7	893.9	892.0	891.6	890.1
35°	865.9	864.8	863.6	862.1	860.5
37.5°	835.2	834.1	831.4	830.6	829.5
40°	802.6	801.1	797.6	797.6	796.5
42.5°	767.7	766.2	763.9	762.4	761.6
45°	731.3	729.8	727.1	725.5	724.8
47.5°	692.6	691.4	688.4	687.2	686.1
50°	652.3	650.8	647.3	646.6	645.4
52.5°	610.1	609.4	604.8	604.4	603.2
55°	568.3	564.1	560.3	560.3	559.5
57.5°	522.3	519.2	514.3	514.3	513.5
60°	474.8	472.1	466.3	467.1	466.3
62.5°	428.3	422.6	417.2	419.5	417.6
65°	375.4	372.4	366.6	368.1	367.8
67.5°	327.1	321.4	316.0	319.1	317.5
70°	273.4	270.4	265.0	268.1	264.2
72.5°	222.8	220.1	214.8	218.2	214.4
75°	173.7	171.0	166.8	169.9	166.0
77.5°	127.3	125.4	121.6	124.6	125.4
80°	85.1	82.8	80.9	83.6	84.4
82.5°	49.9	48.3	47.6	47.9	49.9
85°	24.2	22.2	22.2	22.6	22.6
87.5°	6.5	5.8	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)