

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: P973803

Luminaire Tested: FLR2-22-50HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-50HE-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

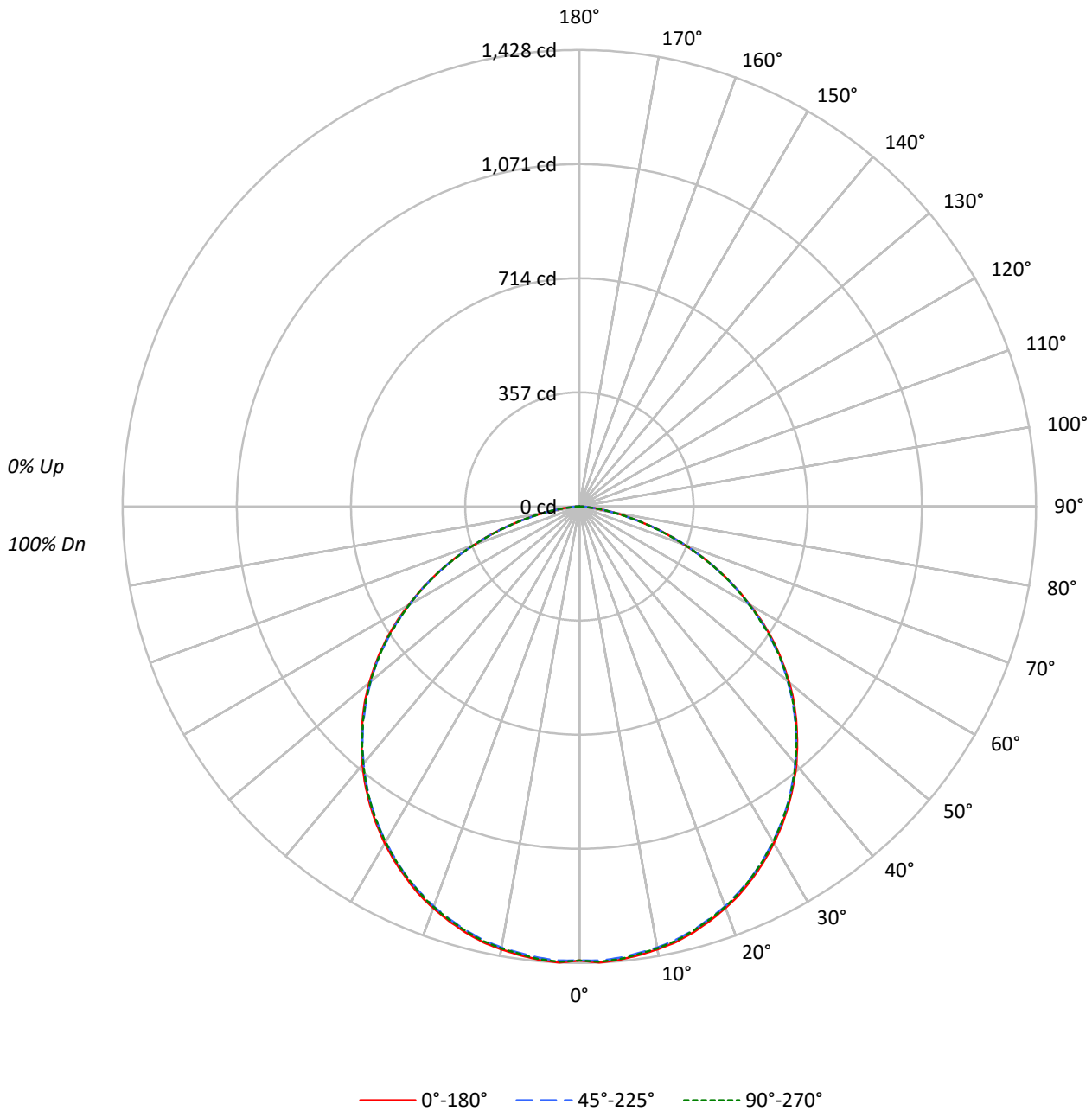
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3971.8 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3822	3822	3822
5°	3846	3829	3841
10°	3845	3828	3835
15°	3842	3825	3830
20°	3828	3813	3818
25°	3808	3793	3795
30°	3781	3764	3767
35°	3746	3732	3735
40°	3707	3689	3692
45°	3652	3636	3642
50°	3588	3562	3570
55°	3486	3457	3469
60°	3314	3300	3300
65°	3095	3089	3078
70°	2740	2754	2747
75°	2307	2289	2271
80°	1658	1632	1618
85°	868	868	840

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.4
10°-20°	386.8	9.7
20°-30°	587.7	14.8
30°-40°	710.4	17.9
40°-50°	737.4	18.6
50°-60°	659.2	16.6
60°-70°	479.3	12.1
70°-80°	235.7	5.9
80°-90°	40.9	1.0
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°	1109.0	27.9
0°-40°	1819.4	45.8
0°-60°	3215.9	81.0
0°-90°	3971.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1424	1407	1418	1412	1422	135
15°	1379	1363	1373	1369	1375	389
25°	1282	1268	1277	1275	1278	591
35°	1140	1132	1136	1137	1137	713
45°	960	955	955	957	957	740
55°	743	739	737	739	740	662
65°	486	488	485	485	483	479
75°	222	224	220	221	218	236
85°	28	29	28	28	27	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1428.1	1411.5	1422.0	1415.9	1425.5
5°	1423.8	1407.1	1417.6	1412.4	1422.0
7.5°	1415.9	1399.2	1409.7	1404.5	1412.4
10°	1407.1	1389.5	1401.0	1395.7	1403.6
12.5°	1395.7	1379.0	1389.5	1385.2	1392.2
15°	1379.0	1363.2	1372.9	1369.4	1374.6
17.5°	1358.8	1343.1	1352.7	1350.1	1354.5
20°	1336.9	1322.0	1331.6	1329.0	1333.4
22.5°	1312.4	1296.6	1305.3	1303.6	1307.1
25°	1282.5	1268.5	1277.3	1274.6	1278.1
27.5°	1250.9	1237.8	1244.8	1244.8	1246.6
30°	1216.7	1204.4	1211.5	1211.5	1212.3
32.5°	1179.9	1170.2	1174.6	1175.5	1175.5
35°	1140.4	1132.5	1136.0	1136.9	1136.9
37.5°	1099.2	1091.3	1093.9	1095.7	1095.7
40°	1055.3	1048.3	1050.1	1051.8	1050.9
42.5°	1007.9	1002.7	1003.6	1005.3	1005.3
45°	959.7	955.3	955.3	957.1	957.1
47.5°	910.6	906.2	904.4	906.2	906.2
50°	857.1	852.7	850.9	852.7	852.7
52.5°	800.9	796.5	796.5	796.5	797.4
55°	743.0	738.6	736.9	738.6	739.5
57.5°	681.6	679.9	677.2	678.1	675.5
60°	615.8	615.8	613.2	614.9	613.2
62.5°	551.8	553.5	550.9	550.9	549.2
65°	486.0	487.7	485.1	485.1	483.4
67.5°	418.4	421.1	417.6	417.6	415.8
70°	348.3	353.5	350.0	350.9	349.1
72.5°	285.1	287.7	284.2	284.2	282.5
75°	221.9	223.7	220.2	221.1	218.4
77.5°	159.7	162.3	158.8	159.7	158.8
80°	107.0	107.9	105.3	106.1	104.4
82.5°	62.3	63.2	62.3	61.4	60.5
85°	28.1	28.9	28.1	28.1	27.2
87.5°	7.0	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)