

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: P974025

Luminaire Tested: FLR2-22-50HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974025
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-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

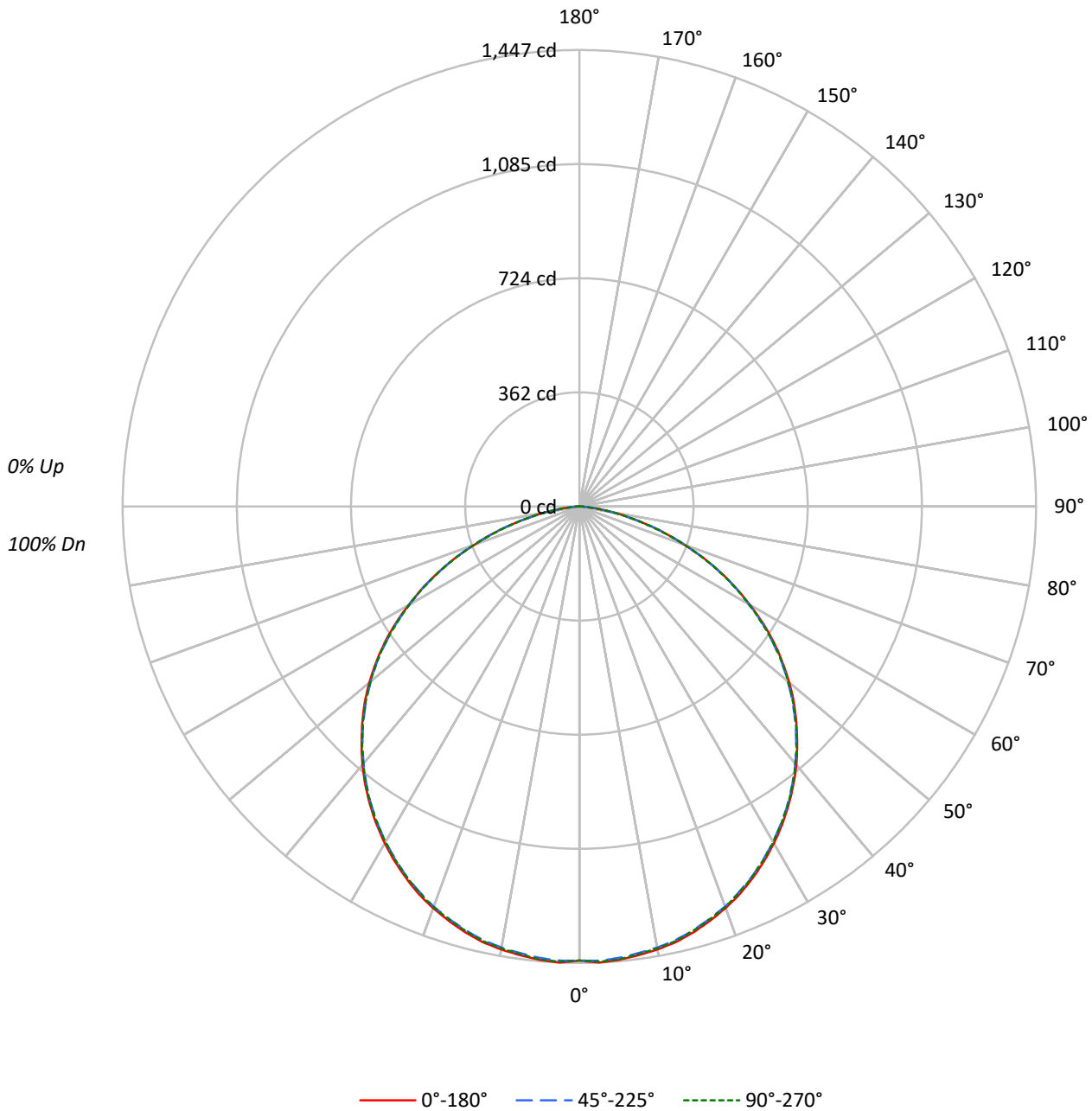
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.9 lumens
Efficiency: N/A
Efficacy: 100.6 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 (A_{in}): 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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3873	3873	3873
5°	3897	3881	3893
10°	3896	3879	3887
15°	3893	3876	3881
20°	3880	3865	3870
25°	3859	3843	3846
30°	3831	3815	3818
35°	3797	3782	3785
40°	3757	3738	3741
45°	3701	3684	3691
50°	3636	3610	3617
55°	3533	3503	3516
60°	3359	3344	3344
65°	3136	3130	3119
70°	2777	2791	2784
75°	2338	2320	2302
80°	1681	1654	1640
85°	877	877	852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.4
10°-20°	391.9	9.7
20°-30°	595.6	14.8
30°-40°	719.9	17.9
40°-50°	747.2	18.6
50°-60°	668.0	16.6
60°-70°	485.7	12.1
70°-80°	238.9	5.9
80°-90°	41.4	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°	1123.8	27.9
0°-40°	1843.7	45.8
0°-60°	3259.0	81.0
0°-90°	4024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1443	1426	1437	1431	1441	137
15°	1398	1382	1391	1388	1393	394
25°	1300	1286	1294	1292	1295	599
35°	1156	1148	1151	1152	1152	723
45°	973	968	968	970	970	750
55°	753	748	747	748	749	671
65°	492	494	492	492	490	486
75°	225	227	223	224	221	239
85°	28	29	28	28	28	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.3	1439.3	1439.3	1439.3	1439.3
2.5°	1447.3	1430.4	1441.0	1434.8	1444.6
5°	1442.8	1425.9	1436.6	1431.3	1441.0
7.5°	1434.8	1417.9	1428.6	1423.3	1431.3
10°	1425.9	1408.2	1419.7	1414.4	1422.4
12.5°	1414.4	1397.5	1408.2	1403.7	1410.8
15°	1397.5	1381.5	1391.3	1387.7	1393.0
17.5°	1377.0	1361.0	1370.8	1368.2	1372.6
20°	1354.8	1339.7	1349.5	1346.8	1351.3
22.5°	1329.9	1313.9	1322.8	1321.0	1324.6
25°	1299.7	1285.5	1294.4	1291.7	1295.3
27.5°	1267.7	1254.4	1261.5	1261.5	1263.3
30°	1233.0	1220.6	1227.7	1227.7	1228.6
32.5°	1195.7	1185.9	1190.4	1191.2	1191.2
35°	1155.7	1147.7	1151.2	1152.1	1152.1
37.5°	1113.9	1105.9	1108.6	1110.3	1110.3
40°	1069.5	1062.3	1064.1	1065.9	1065.0
42.5°	1021.4	1016.1	1017.0	1018.8	1018.8
45°	972.6	968.1	968.1	969.9	969.9
47.5°	922.8	918.3	916.5	918.3	918.3
50°	868.5	864.1	862.3	864.1	864.1
52.5°	811.6	807.2	807.2	807.2	808.1
55°	753.0	748.5	746.7	748.5	749.4
57.5°	690.7	689.0	686.3	687.2	684.5
60°	624.1	624.1	621.4	623.2	621.4
62.5°	559.2	561.0	558.3	558.3	556.5
65°	492.5	494.3	491.6	491.6	489.8
67.5°	424.0	426.7	423.2	423.2	421.4
70°	352.9	358.3	354.7	355.6	353.8
72.5°	288.9	291.6	288.0	288.0	286.3
75°	224.9	226.7	223.1	224.0	221.4
77.5°	161.8	164.5	160.9	161.8	160.9
80°	108.5	109.3	106.7	107.6	105.8
82.5°	63.1	64.0	63.1	62.2	61.3
85°	28.4	29.3	28.4	28.4	27.6
87.5°	7.1	7.1	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)