

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: P973773

Luminaire Tested: FLR2-22-50HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973773
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

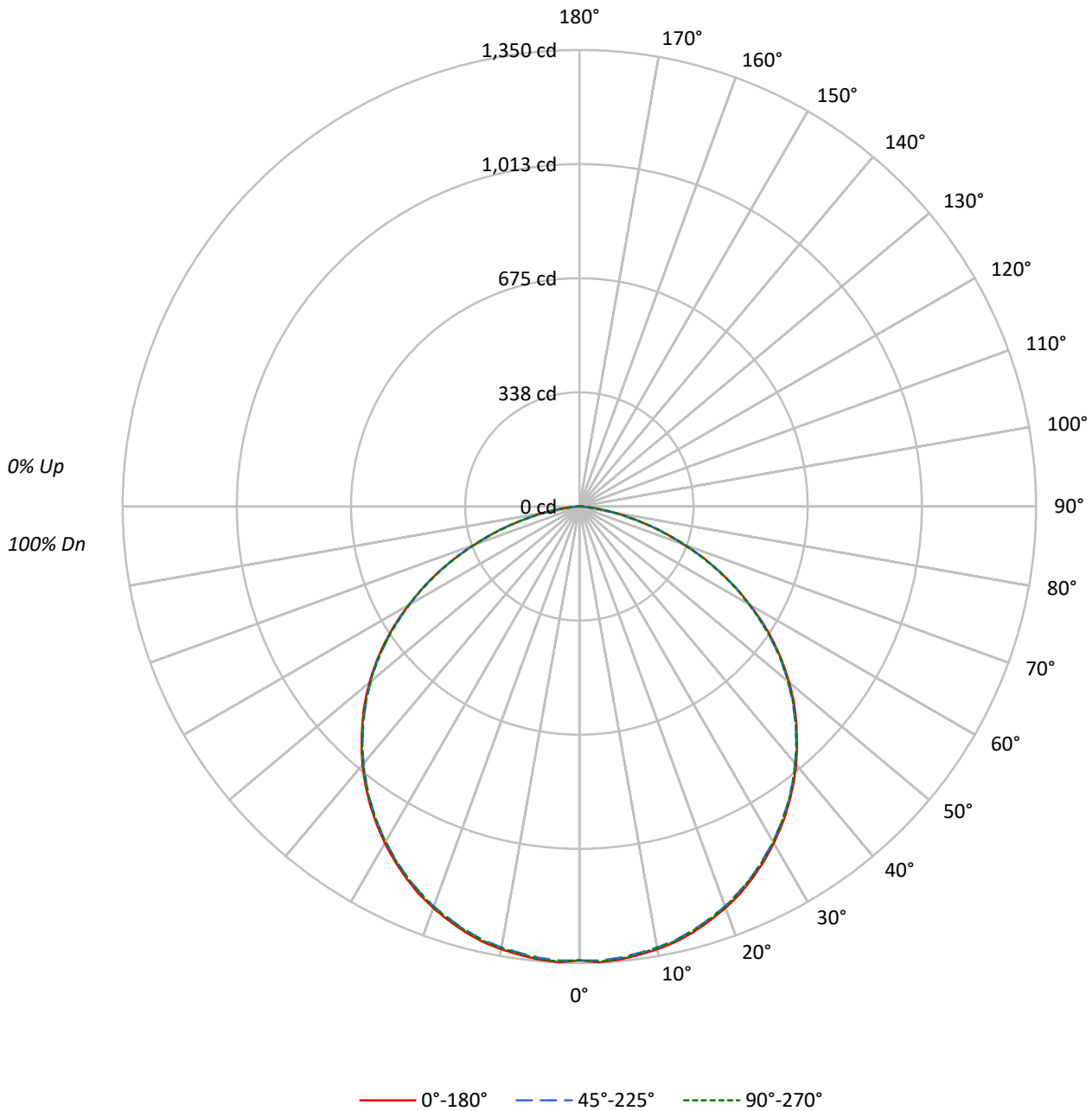
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.6 lumens
Efficiency: N/A
Efficacy: 93.8 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									
RC	80									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	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°	3612	3612	3612
5°	3635	3619	3630
10°	3634	3618	3625
15°	3631	3615	3619
20°	3618	3604	3609
25°	3599	3584	3586
30°	3573	3558	3560
35°	3541	3527	3530
40°	3504	3486	3489
45°	3452	3436	3442
50°	3391	3367	3373
55°	3294	3267	3279
60°	3132	3119	3119
65°	2925	2919	2909
70°	2589	2603	2596
75°	2181	2164	2146
80°	1567	1542	1530
85°	818	818	794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3452 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.4
10°-20°	365.5	9.7
20°-30°	555.4	14.8
30°-40°	671.4	17.9
40°-50°	696.8	18.6
50°-60°	623.0	16.6
60°-70°	453.0	12.1
70°-80°	222.8	5.9
80°-90°	38.6	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°	1048.1	27.9
0°-40°	1719.4	45.8
0°-60°	3039.3	81.0
0°-90°	3753.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1346	1330	1340	1335	1344	128
15°	1303	1288	1298	1294	1299	368
25°	1212	1199	1207	1205	1208	559
35°	1078	1070	1074	1074	1074	674
45°	907	903	903	904	904	700
55°	702	698	696	698	699	626
65°	459	461	458	458	457	453
75°	210	211	208	209	206	223
85°	26	27	26	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1349.7	1333.9	1343.9	1338.1	1347.2
5°	1345.6	1329.8	1339.8	1334.8	1343.9
7.5°	1338.1	1322.3	1332.3	1327.3	1334.8
10°	1329.8	1313.2	1324.0	1319.0	1326.5
12.5°	1319.0	1303.3	1313.2	1309.1	1315.7
15°	1303.3	1288.4	1297.5	1294.2	1299.1
17.5°	1284.2	1269.3	1278.4	1275.9	1280.1
20°	1263.5	1249.4	1258.5	1256.0	1260.2
22.5°	1240.3	1225.3	1233.6	1232.0	1235.3
25°	1212.1	1198.8	1207.1	1204.6	1207.9
27.5°	1182.2	1169.8	1176.4	1176.4	1178.1
30°	1149.9	1138.3	1144.9	1144.9	1145.8
32.5°	1115.1	1106.0	1110.1	1110.9	1110.9
35°	1077.8	1070.3	1073.6	1074.5	1074.5
37.5°	1038.8	1031.3	1033.8	1035.5	1035.5
40°	997.4	990.7	992.4	994.0	993.2
42.5°	952.6	947.6	948.4	950.1	950.1
45°	907.0	902.8	902.8	904.5	904.5
47.5°	860.6	856.4	854.8	856.4	856.4
50°	810.0	805.8	804.2	805.8	805.8
52.5°	756.9	752.8	752.8	752.8	753.6
55°	702.2	698.1	696.4	698.1	698.9
57.5°	644.2	642.5	640.0	640.9	638.4
60°	582.0	582.0	579.5	581.2	579.5
62.5°	521.5	523.1	520.6	520.6	519.0
65°	459.3	461.0	458.5	458.5	456.8
67.5°	395.5	397.9	394.6	394.6	393.0
70°	329.1	334.1	330.8	331.6	330.0
72.5°	269.4	271.9	268.6	268.6	267.0
75°	209.8	211.4	208.1	208.9	206.4
77.5°	150.9	153.4	150.1	150.9	150.1
80°	101.1	102.0	99.5	100.3	98.7
82.5°	58.9	59.7	58.9	58.0	57.2
85°	26.5	27.4	26.5	26.5	25.7
87.5°	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)