

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: P973767

Luminaire Tested: FLR2-22-50HE-L930-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973767  
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-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

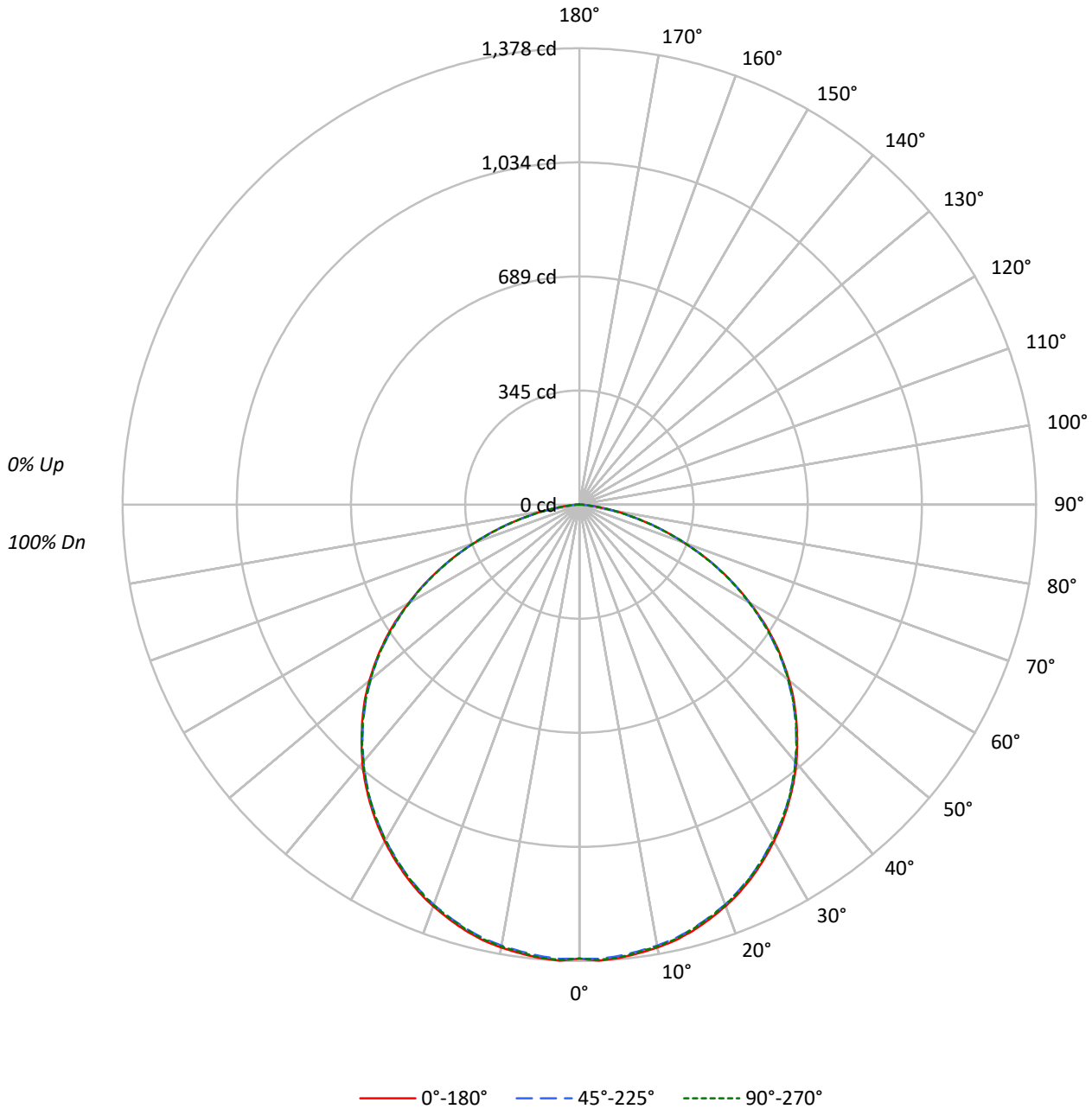
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3833.4 lumens  
Efficiency: N/A  
Efficacy: 95.8 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									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°	3689	3689	3689
5°	3712	3696	3707
10°	3711	3695	3702
15°	3708	3691	3696
20°	3695	3681	3685
25°	3675	3660	3663
30°	3649	3633	3636
35°	3616	3602	3605
40°	3578	3560	3563
45°	3525	3509	3515
50°	3463	3438	3445
55°	3364	3337	3348
60°	3199	3185	3185
65°	2987	2981	2970
70°	2644	2658	2651
75°	2227	2209	2192
80°	1601	1574	1562
85°	837	837	809

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3525 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	3.4
10°-20°	373.3	9.7
20°-30°	567.3	14.8
30°-40°	685.6	17.9
40°-50°	711.7	18.6
50°-60°	636.2	16.6
60°-70°	462.6	12.1
70°-80°	227.5	5.9
80°-90°	39.5	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°	1070.3	27.9
0°-40°	1756.0	45.8
0°-60°	3103.9	81.0
0°-90°	3833.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1374	1358	1368	1363	1372	131
15°	1331	1316	1325	1322	1327	376
25°	1238	1224	1233	1230	1234	571
35°	1101	1093	1096	1097	1097	689
45°	926	922	922	924	924	715
55°	717	713	711	713	714	639
65°	469	471	468	468	466	463
75°	214	216	212	213	211	227
85°	27	28	27	27	26	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1378.4	1362.3	1372.5	1366.5	1375.8
5°	1374.2	1358.1	1368.2	1363.1	1372.5
7.5°	1366.5	1350.4	1360.6	1355.5	1363.1
10°	1358.1	1341.1	1352.1	1347.1	1354.7
12.5°	1347.1	1331.0	1341.1	1336.9	1343.7
15°	1331.0	1315.7	1325.0	1321.7	1326.7
17.5°	1311.5	1296.3	1305.6	1303.0	1307.3
20°	1290.3	1275.9	1285.3	1282.7	1286.9
22.5°	1266.6	1251.4	1259.9	1258.2	1261.5
25°	1237.8	1224.3	1232.8	1230.2	1233.6
27.5°	1207.4	1194.7	1201.4	1201.4	1203.1
30°	1174.3	1162.5	1169.3	1169.3	1170.1
32.5°	1138.8	1129.5	1133.7	1134.5	1134.5
35°	1100.7	1093.1	1096.4	1097.3	1097.3
37.5°	1060.9	1053.3	1055.8	1057.5	1057.5
40°	1018.6	1011.8	1013.5	1015.2	1014.3
42.5°	972.8	967.8	968.6	970.3	970.3
45°	926.3	922.0	922.0	923.7	923.7
47.5°	878.8	874.6	872.9	874.6	874.6
50°	827.2	823.0	821.3	823.0	823.0
52.5°	773.0	768.8	768.8	768.8	769.6
55°	717.1	712.9	711.2	712.9	713.7
57.5°	657.9	656.2	653.6	654.5	651.9
60°	594.4	594.4	591.8	593.5	591.8
62.5°	532.6	534.3	531.7	531.7	530.0
65°	469.1	470.8	468.2	468.2	466.5
67.5°	403.9	406.4	403.0	403.0	401.3
70°	336.1	341.2	337.8	338.7	337.0
72.5°	275.2	277.7	274.3	274.3	272.6
75°	214.2	215.9	212.5	213.4	210.8
77.5°	154.1	156.6	153.2	154.1	153.2
80°	103.3	104.1	101.6	102.4	100.8
82.5°	60.1	61.0	60.1	59.3	58.4
85°	27.1	27.9	27.1	27.1	26.2
87.5°	6.8	6.8	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)