

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: P973959

Luminaire Tested: FLR2-22-50HE-L940-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973959  
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-L940-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

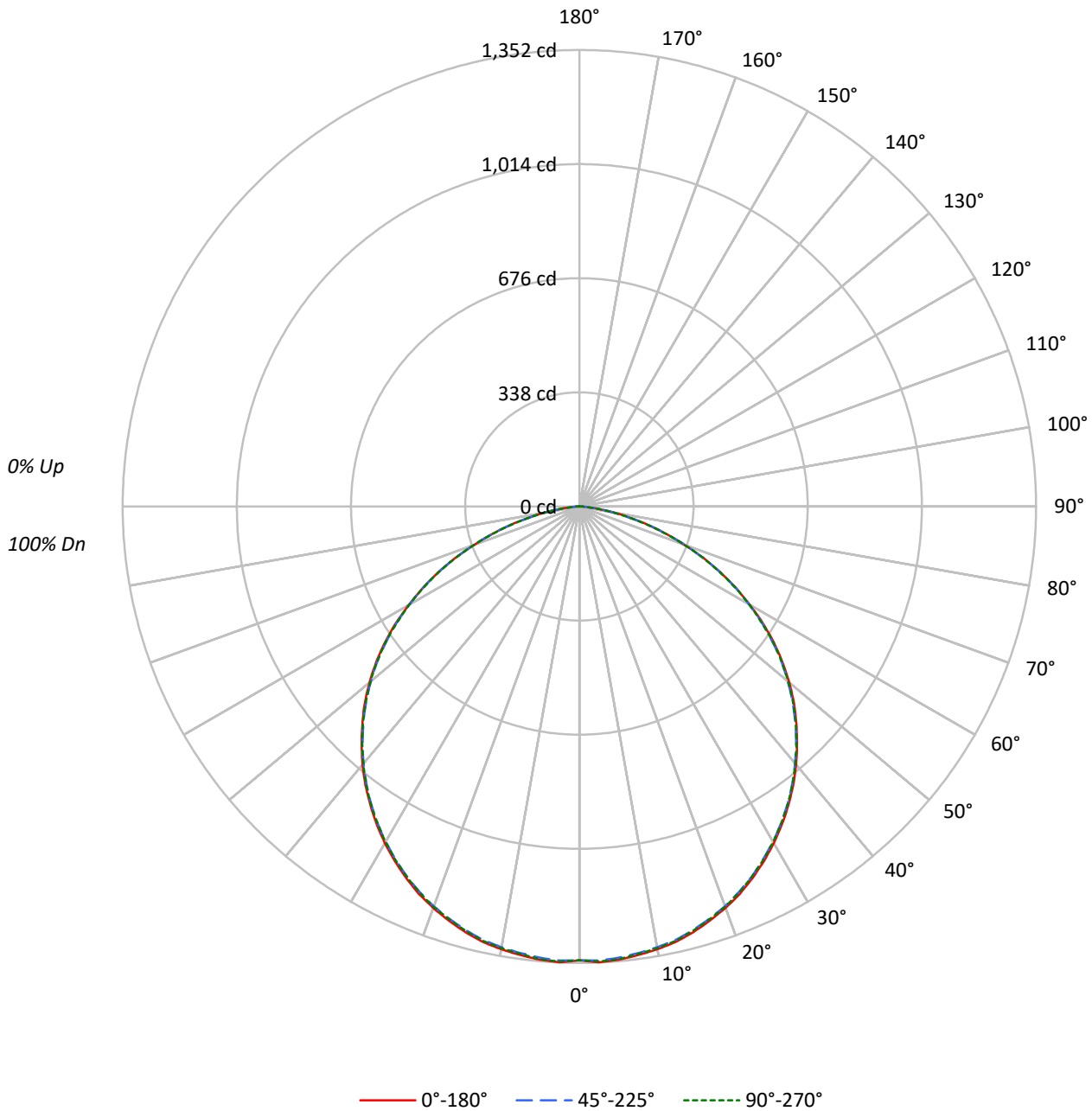
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3758.9 lumens  
Efficiency: N/A  
Efficacy: 94.0 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°	3617	3617	3617
5°	3640	3624	3635
10°	3639	3623	3630
15°	3636	3620	3624
20°	3623	3609	3614
25°	3604	3589	3592
30°	3578	3562	3565
35°	3546	3532	3535
40°	3509	3491	3494
45°	3457	3441	3447
50°	3396	3371	3378
55°	3299	3272	3284
60°	3137	3123	3123
65°	2928	2923	2913
70°	2593	2607	2600
75°	2183	2167	2149
80°	1570	1543	1531
85°	821	821	794

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3457 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	3.4
10°-20°	366.0	9.7
20°-30°	556.2	14.8
30°-40°	672.3	17.9
40°-50°	697.8	18.6
50°-60°	623.9	16.6
60°-70°	453.6	12.1
70°-80°	223.1	5.9
80°-90°	38.7	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°	1049.5	27.9
0°-40°	1721.8	45.8
0°-60°	3043.5	81.0
0°-90°	3758.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3758.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1348	1332	1342	1337	1346	128
15°	1305	1290	1299	1296	1301	368
25°	1214	1200	1209	1206	1210	559
35°	1079	1072	1075	1076	1076	675
45°	908	904	904	906	906	701
55°	703	699	697	699	700	627
65°	460	462	459	459	458	454
75°	210	212	208	209	207	223
85°	27	27	27	27	26	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1344.1	1344.1	1344.1	1344.1	1344.1
2.5°	1351.6	1335.8	1345.8	1340.0	1349.1
5°	1347.5	1331.7	1341.6	1336.7	1345.8
7.5°	1340.0	1324.2	1334.2	1329.2	1336.7
10°	1331.7	1315.1	1325.9	1320.9	1328.4
12.5°	1320.9	1305.1	1315.1	1310.9	1317.6
15°	1305.1	1290.2	1299.3	1296.0	1301.0
17.5°	1286.0	1271.1	1280.2	1277.7	1281.9
20°	1265.3	1251.1	1260.3	1257.8	1261.9
22.5°	1242.0	1227.1	1235.4	1233.7	1237.0
25°	1213.8	1200.5	1208.8	1206.3	1209.6
27.5°	1183.9	1171.4	1178.1	1178.1	1179.7
30°	1151.5	1139.9	1146.5	1146.5	1147.4
32.5°	1116.6	1107.5	1111.7	1112.5	1112.5
35°	1079.3	1071.8	1075.1	1076.0	1076.0
37.5°	1040.3	1032.8	1035.3	1036.9	1036.9
40°	998.8	992.1	993.8	995.4	994.6
42.5°	953.9	948.9	949.8	951.4	951.4
45°	908.3	904.1	904.1	905.8	905.8
47.5°	861.8	857.6	856.0	857.6	857.6
50°	811.1	807.0	805.3	807.0	807.0
52.5°	758.0	753.8	753.8	753.8	754.7
55°	703.2	699.0	697.4	699.0	699.9
57.5°	645.1	643.4	640.9	641.8	639.3
60°	582.8	582.8	580.3	582.0	580.3
62.5°	522.2	523.9	521.4	521.4	519.7
65°	459.9	461.6	459.1	459.1	457.5
67.5°	396.0	398.5	395.2	395.2	393.5
70°	329.6	334.6	331.3	332.1	330.4
72.5°	269.8	272.3	269.0	269.0	267.3
75°	210.0	211.7	208.4	209.2	206.7
77.5°	151.1	153.6	150.3	151.1	150.3
80°	101.3	102.1	99.6	100.5	98.8
82.5°	58.9	59.8	58.9	58.1	57.3
85°	26.6	27.4	26.6	26.6	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)