

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: P973869

Luminaire Tested: FLR2-22-50HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973869
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

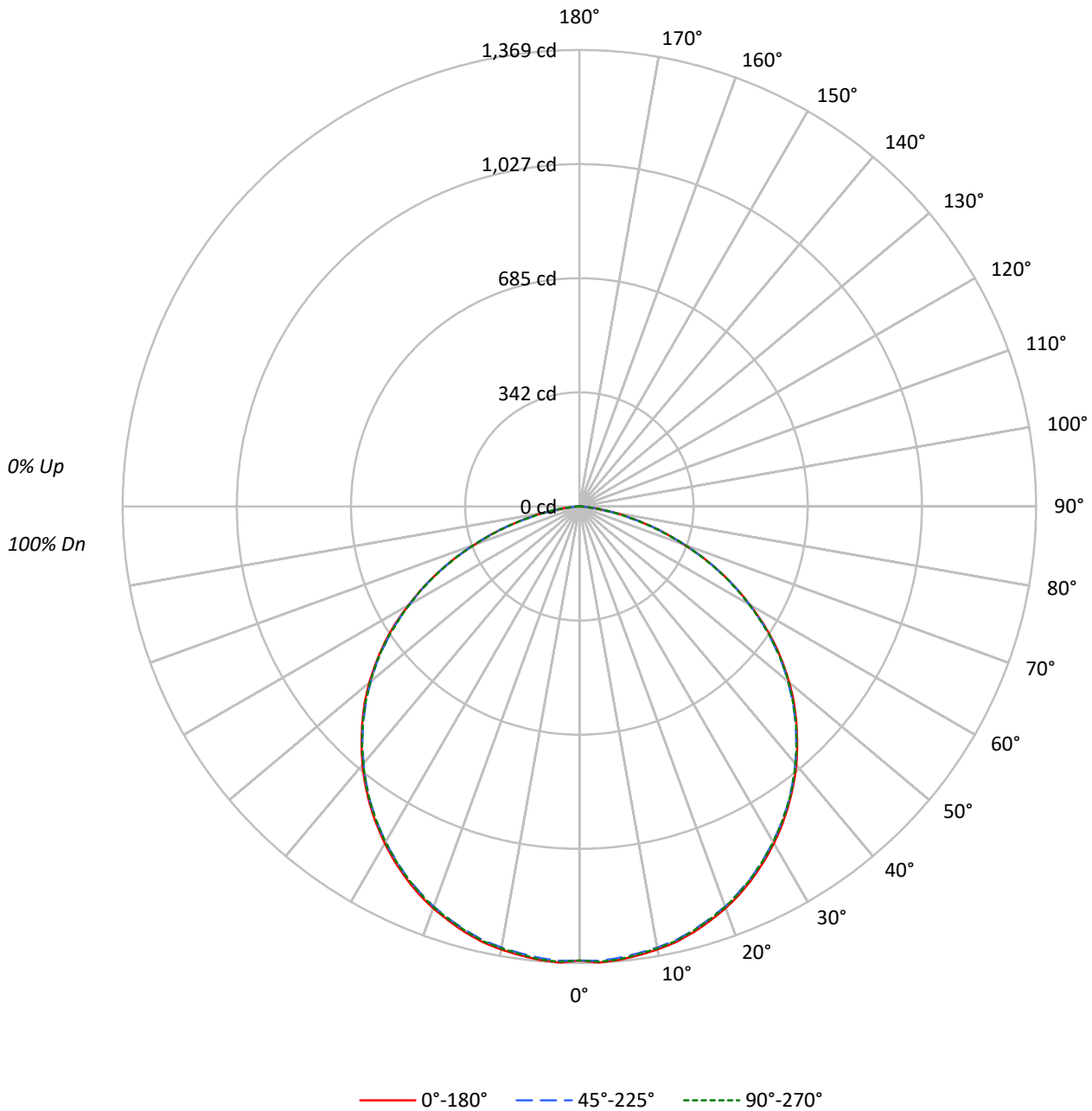
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3808.3 lumens
Efficiency: N/A
Efficacy: 95.2 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°	3665	3665	3665
5°	3688	3672	3683
10°	3687	3671	3677
15°	3684	3667	3672
20°	3671	3656	3661
25°	3651	3636	3639
30°	3625	3609	3612
35°	3592	3578	3581
40°	3555	3537	3540
45°	3502	3486	3492
50°	3440	3416	3423
55°	3342	3315	3327
60°	3178	3165	3165
65°	2967	2961	2951
70°	2627	2640	2634
75°	2213	2195	2177
80°	1590	1564	1551
85°	831	831	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3502 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.4
10°-20°	370.8	9.7
20°-30°	563.5	14.8
30°-40°	681.2	17.9
40°-50°	707.0	18.6
50°-60°	632.1	16.6
60°-70°	459.6	12.1
70°-80°	226.0	5.9
80°-90°	39.2	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°	1063.3	27.9
0°-40°	1744.5	45.8
0°-60°	3083.6	81.0
0°-90°	3808.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3808.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1365	1349	1359	1354	1364	130
15°	1322	1307	1316	1313	1318	373
25°	1230	1216	1225	1222	1226	567
35°	1094	1086	1089	1090	1090	684
45°	920	916	916	918	918	710
55°	712	708	706	708	709	635
65°	466	468	465	465	464	460
75°	213	214	211	212	209	226
85°	27	28	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°	1361.8	1361.8	1361.8	1361.8	1361.8
2.5°	1369.4	1353.4	1363.5	1357.6	1366.8
5°	1365.2	1349.2	1359.3	1354.2	1363.5
7.5°	1357.6	1341.6	1351.7	1346.7	1354.2
10°	1349.2	1332.4	1343.3	1338.2	1345.8
12.5°	1338.2	1322.3	1332.4	1328.1	1334.9
15°	1322.3	1307.1	1316.4	1313.0	1318.1
17.5°	1302.9	1287.8	1297.0	1294.5	1298.7
20°	1281.9	1267.6	1276.8	1274.3	1278.5
22.5°	1258.3	1243.2	1251.6	1249.9	1253.3
25°	1229.7	1216.3	1224.7	1222.2	1225.5
27.5°	1199.5	1186.8	1193.6	1193.6	1195.2
30°	1166.6	1154.9	1161.6	1161.6	1162.4
32.5°	1131.3	1122.1	1126.3	1127.1	1127.1
35°	1093.5	1085.9	1089.3	1090.1	1090.1
37.5°	1053.9	1046.4	1048.9	1050.6	1050.6
40°	1011.9	1005.2	1006.8	1008.5	1007.7
42.5°	966.5	961.4	962.3	963.9	963.9
45°	920.2	916.0	916.0	917.7	917.7
47.5°	873.1	868.9	867.2	868.9	868.9
50°	821.8	817.6	815.9	817.6	817.6
52.5°	768.0	763.7	763.7	763.7	764.6
55°	712.4	708.2	706.5	708.2	709.1
57.5°	653.6	651.9	649.4	650.2	647.7
60°	590.5	590.5	588.0	589.6	588.0
62.5°	529.1	530.8	528.2	528.2	526.5
65°	466.0	467.7	465.1	465.1	463.5
67.5°	401.2	403.7	400.4	400.4	398.7
70°	333.9	339.0	335.6	336.5	334.8
72.5°	273.4	275.9	272.5	272.5	270.8
75°	212.8	214.5	211.1	212.0	209.4
77.5°	153.1	155.6	152.2	153.1	152.2
80°	102.6	103.5	100.9	101.8	100.1
82.5°	59.7	60.6	59.7	58.9	58.0
85°	26.9	27.8	26.9	26.9	26.1
87.5°	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)