

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: P973857

Luminaire Tested: FLR2-22-50HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973857
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

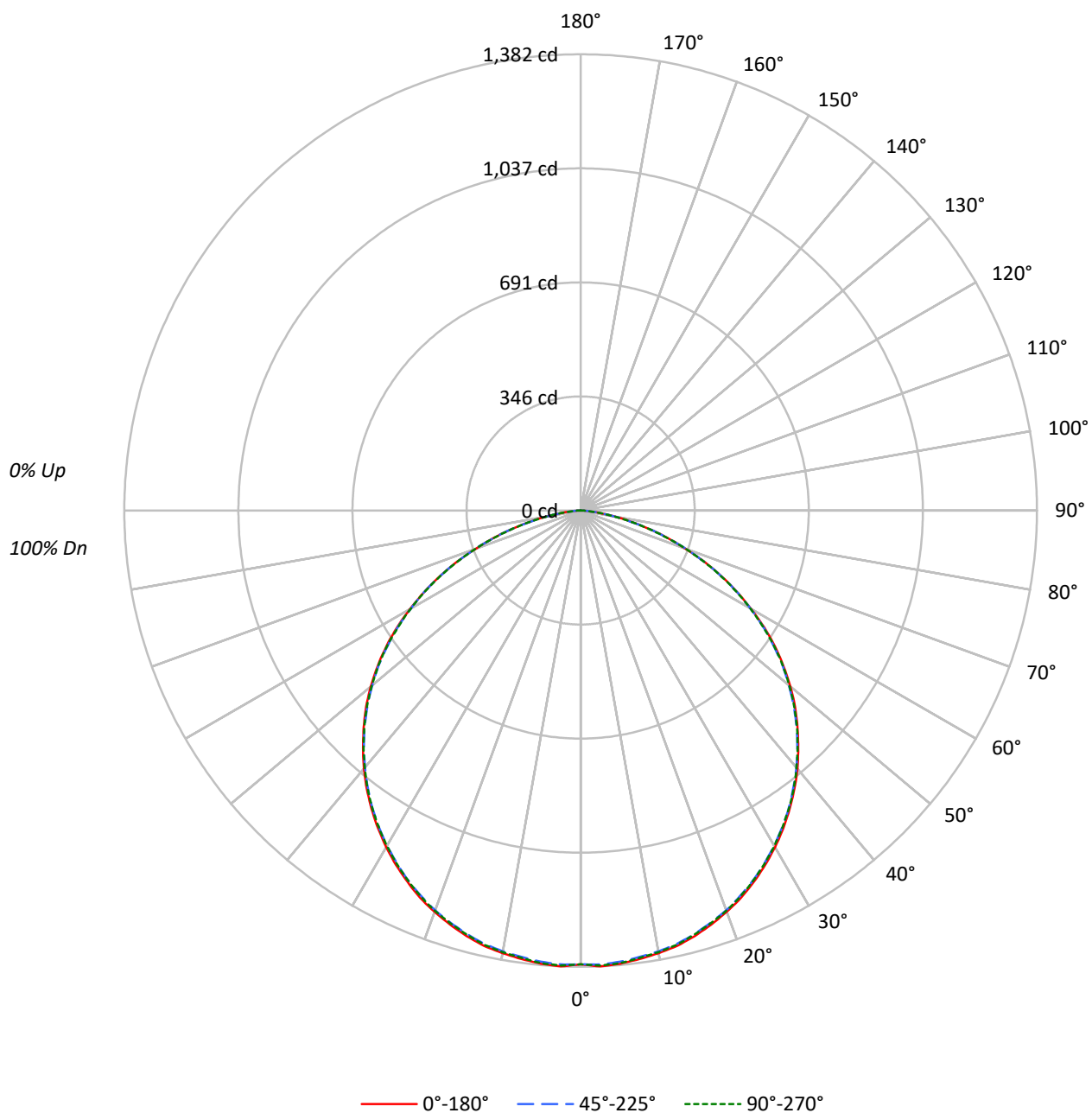
Lumens per Lamp: N/A
Luminaire Lumens: 3844.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	3699	3699	3699
5°	3722	3706	3718
10°	3721	3705	3712
15°	3718	3702	3706
20°	3705	3691	3696
25°	3686	3670	3673
30°	3659	3643	3646
35°	3626	3612	3615
40°	3588	3570	3573
45°	3535	3519	3525
50°	3473	3448	3455
55°	3374	3346	3358
60°	3208	3194	3194
65°	2995	2989	2979
70°	2652	2666	2659
75°	2233	2216	2198
80°	1605	1579	1565
85°	840	840	812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3535 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.4
10°-20°	374.3	9.7
20°-30°	568.8	14.8
30°-40°	687.5	17.9
40°-50°	713.7	18.6
50°-60°	638.0	16.6
60°-70°	463.9	12.1
70°-80°	228.1	5.9
80°-90°	39.6	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°	1073.3	27.9
0°-40°	1760.8	45.8
0°-60°	3112.5	81.0
0°-90°	3844.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1378	1362	1372	1367	1376	131
15°	1335	1319	1329	1325	1330	377
25°	1241	1228	1236	1234	1237	572
35°	1104	1096	1100	1100	1100	691
45°	929	925	925	926	926	716
55°	719	715	713	715	716	641
65°	470	472	470	470	468	464
75°	215	216	213	214	211	228
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°	1374.6	1374.6	1374.6	1374.6	1374.6
2.5°	1382.2	1366.1	1376.3	1370.3	1379.7
5°	1378.0	1361.8	1372.0	1366.9	1376.3
7.5°	1370.3	1354.2	1364.4	1359.3	1366.9
10°	1361.8	1344.9	1355.9	1350.8	1358.5
12.5°	1350.8	1334.7	1344.9	1340.6	1347.4
15°	1334.7	1319.4	1328.7	1325.3	1330.4
17.5°	1315.2	1299.9	1309.2	1306.7	1310.9
20°	1293.9	1279.5	1288.8	1286.3	1290.5
22.5°	1270.2	1254.9	1263.4	1261.7	1265.1
25°	1241.3	1227.7	1236.2	1233.6	1237.0
27.5°	1210.7	1198.0	1204.8	1204.8	1206.5
30°	1177.6	1165.7	1172.5	1172.5	1173.4
32.5°	1141.9	1132.6	1136.9	1137.7	1137.7
35°	1103.7	1096.1	1099.5	1100.3	1100.3
37.5°	1063.8	1056.2	1058.7	1060.4	1060.4
40°	1021.4	1014.6	1016.3	1018.0	1017.1
42.5°	975.5	970.4	971.3	973.0	973.0
45°	928.8	924.6	924.6	926.3	926.3
47.5°	881.3	877.1	875.4	877.1	877.1
50°	829.5	825.3	823.6	825.3	825.3
52.5°	775.2	770.9	770.9	770.9	771.8
55°	719.1	714.9	713.2	714.9	715.7
57.5°	659.7	658.0	655.5	656.3	653.8
60°	596.0	596.0	593.5	595.2	593.5
62.5°	534.0	535.7	533.2	533.2	531.5
65°	470.4	472.1	469.5	469.5	467.8
67.5°	405.0	407.5	404.1	404.1	402.4
70°	337.1	342.2	338.8	339.6	337.9
72.5°	275.9	278.5	275.1	275.1	273.4
75°	214.8	216.5	213.1	214.0	211.4
77.5°	154.5	157.1	153.7	154.5	153.7
80°	103.6	104.4	101.9	102.7	101.0
82.5°	60.3	61.1	60.3	59.4	58.6
85°	27.2	28.0	27.2	27.2	26.3
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)