

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: P974054

Luminaire Tested: FLR2-22-45HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974054
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: FLR2-22-45HE-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

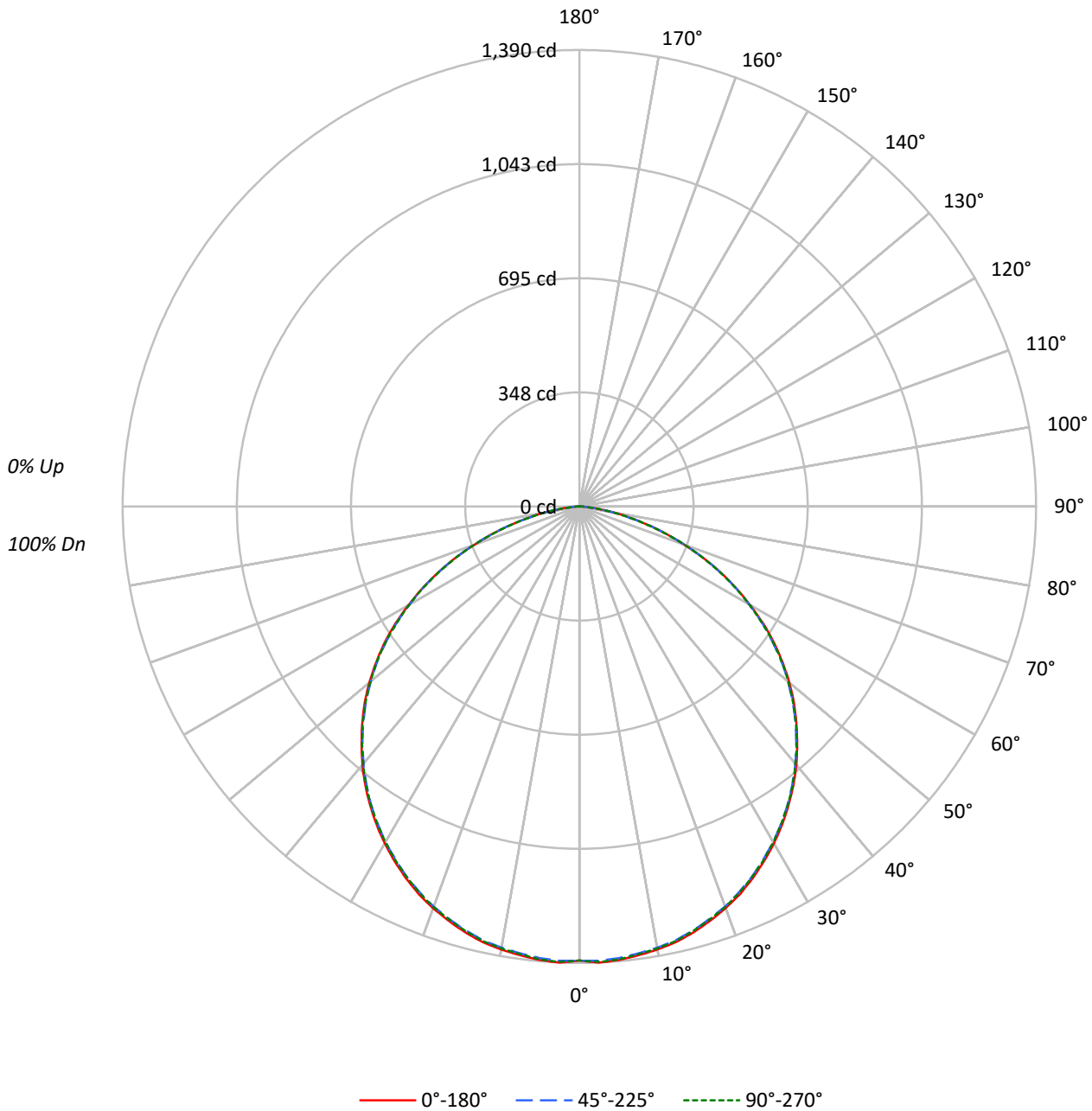
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867.2 lumens
Efficiency: N/A
Efficacy: 106.8 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): 36.2
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°	3721	3721	3721
5°	3745	3729	3740
10°	3744	3727	3734
15°	3741	3724	3729
20°	3728	3713	3718
25°	3708	3692	3695
30°	3681	3665	3668
35°	3648	3634	3637
40°	3609	3592	3595
45°	3556	3540	3546
50°	3494	3468	3476
55°	3394	3366	3378
60°	3227	3213	3213
65°	3013	3007	2996
70°	2668	2681	2674
75°	2247	2229	2211
80°	1615	1588	1574
85°	843	843	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3556 cd/sqm



TEST NUMBER: P974054
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.4
10°-20°	376.6	9.7
20°-30°	572.2	14.8
30°-40°	691.7	17.9
40°-50°	717.9	18.6
50°-60°	641.9	16.6
60°-70°	466.7	12.1
70°-80°	229.5	5.9
80°-90°	39.8	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°	1079.8	27.9
0°-40°	1771.4	45.8
0°-60°	3131.2	81.0
0°-90°	3867.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3867.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1386	1370	1380	1375	1385	132
15°	1343	1327	1337	1333	1338	379
25°	1249	1235	1244	1241	1244	576
35°	1110	1103	1106	1107	1107	695
45°	934	930	930	932	932	721
55°	724	719	718	719	720	645
65°	473	475	472	472	471	467
75°	216	218	214	215	213	229
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°	1382.8	1382.8	1382.8	1382.8	1382.8
2.5°	1390.5	1374.3	1384.6	1378.6	1388.0
5°	1386.3	1370.0	1380.3	1375.2	1384.6
7.5°	1378.6	1362.3	1372.6	1367.5	1375.2
10°	1370.0	1353.0	1364.1	1358.9	1366.6
12.5°	1358.9	1342.7	1353.0	1348.7	1355.5
15°	1342.7	1327.3	1336.7	1333.3	1338.4
17.5°	1323.1	1307.7	1317.1	1314.5	1318.8
20°	1301.7	1287.2	1296.6	1294.0	1298.3
22.5°	1277.8	1262.4	1271.0	1269.2	1272.7
25°	1248.7	1235.1	1243.6	1241.1	1244.5
27.5°	1218.0	1205.2	1212.0	1212.0	1213.7
30°	1184.7	1172.7	1179.6	1179.6	1180.4
32.5°	1148.8	1139.4	1143.7	1144.5	1144.5
35°	1110.4	1102.7	1106.1	1107.0	1107.0
37.5°	1070.2	1062.5	1065.1	1066.8	1066.8
40°	1027.5	1020.7	1022.4	1024.1	1023.3
42.5°	981.4	976.3	977.1	978.8	978.8
45°	934.4	930.2	930.2	931.9	931.9
47.5°	886.6	882.3	880.6	882.3	882.3
50°	834.5	830.2	828.5	830.2	830.2
52.5°	779.8	775.6	775.6	775.6	776.4
55°	723.5	719.2	717.5	719.2	720.0
57.5°	663.7	662.0	659.4	660.2	657.7
60°	599.6	599.6	597.0	598.8	597.0
62.5°	537.3	539.0	536.4	536.4	534.7
65°	473.2	474.9	472.3	472.3	470.6
67.5°	407.4	410.0	406.6	406.6	404.9
70°	339.1	344.2	340.8	341.7	339.9
72.5°	277.6	280.2	276.7	276.7	275.0
75°	216.1	217.8	214.4	215.2	212.7
77.5°	155.5	158.0	154.6	155.5	154.6
80°	104.2	105.1	102.5	103.4	101.6
82.5°	60.6	61.5	60.6	59.8	58.9
85°	27.3	28.2	27.3	27.3	26.5
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)