

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: P975059

Luminaire Tested: FLR2-24-45HE-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-45HE-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

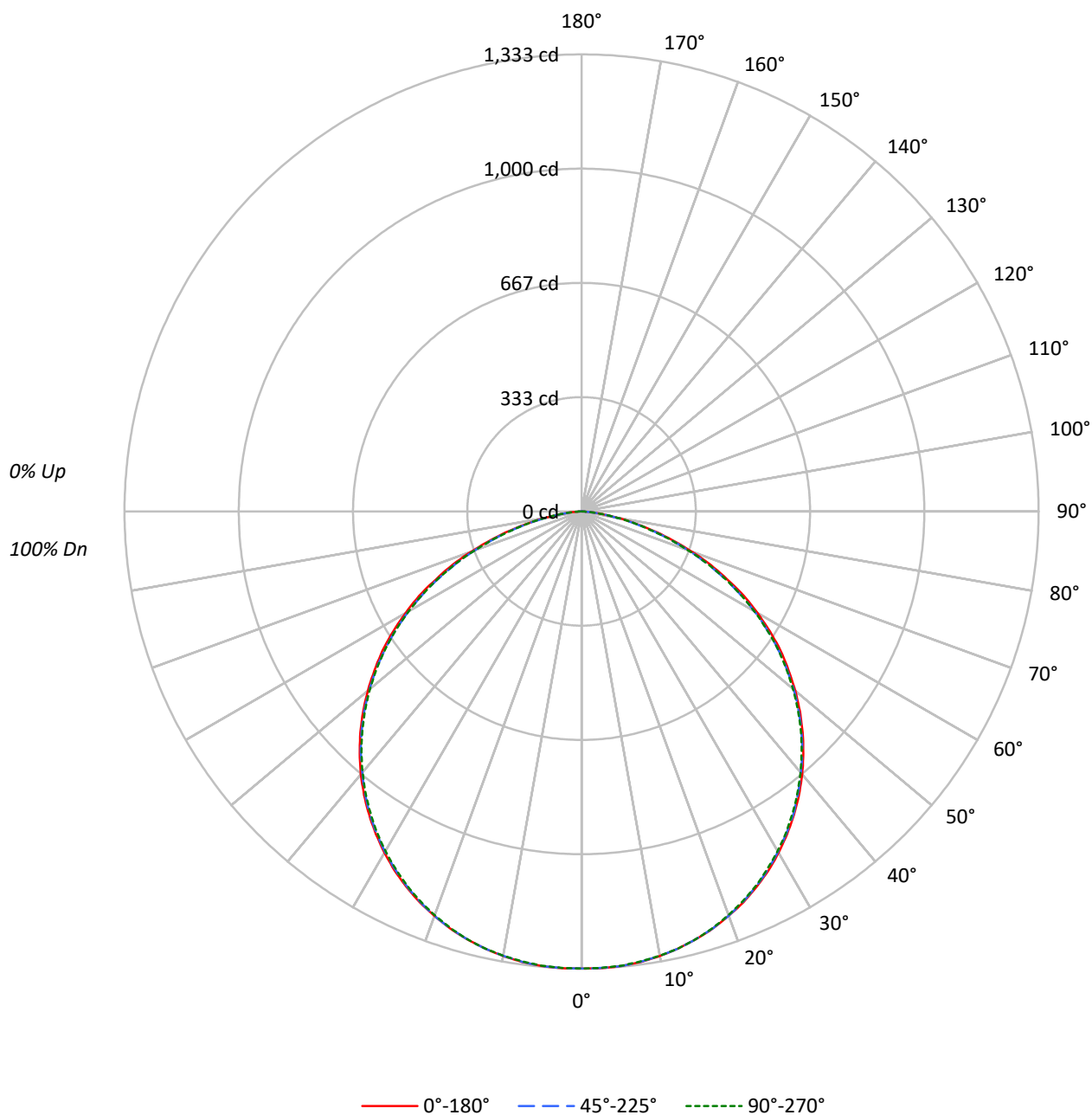
Lumens per Lamp: N/A
Luminaire Lumens: 3768.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
Input Voltage (V):
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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1794	1794	1794
5°	1798	1798	1796
10°	1799	1798	1797
15°	1799	1799	1799
20°	1797	1797	1794
25°	1794	1790	1788
30°	1786	1781	1777
35°	1774	1770	1763
40°	1759	1748	1745
45°	1736	1726	1721
50°	1703	1690	1685
55°	1663	1639	1637
60°	1594	1565	1565
65°	1491	1456	1461
70°	1342	1301	1297
75°	1127	1082	1077
80°	823	782	815
85°	465	428	435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	3.4
10°-20°	364.6	9.7
20°-30°	555.9	14.8
30°-40°	673.5	17.9
40°-50°	699.6	18.6
50°-60°	625.8	16.6
60°-70°	456.1	12.1
70°-80°	225.9	6.0
80°-90°	40.4	1.1
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°	1047.0	27.8
0°-40°	1720.5	45.7
0°-60°	3045.9	80.8
0°-90°	3768.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3768.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1331	1331	1331	1331	1330	127
15°	1292	1291	1291	1292	1291	365
25°	1208	1207	1206	1206	1204	557
35°	1080	1079	1077	1075	1074	676
45°	912	910	907	905	904	703
55°	709	704	699	699	698	632
65°	468	464	457	459	459	464
75°	217	213	208	212	207	231
85°	30	28	28	28	28	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.3	1333.3	1333.3	1333.3	1333.3
2.5°	1333.3	1332.8	1332.8	1333.3	1332.3
5°	1330.9	1331.4	1330.9	1330.9	1329.9
7.5°	1325.6	1325.1	1324.7	1325.1	1323.7
10°	1316.5	1316.5	1316.0	1316.5	1315.6
12.5°	1305.5	1305.5	1305.5	1306.0	1305.5
15°	1291.6	1291.2	1291.2	1292.1	1291.2
17.5°	1275.4	1274.9	1274.9	1274.4	1273.5
20°	1255.3	1255.3	1254.8	1254.3	1252.9
22.5°	1233.8	1233.3	1231.9	1231.9	1229.9
25°	1208.4	1207.0	1206.0	1205.5	1204.1
27.5°	1180.7	1178.8	1177.3	1176.4	1174.9
30°	1149.6	1147.7	1146.2	1144.8	1143.8
32.5°	1116.1	1115.1	1112.7	1112.3	1110.3
35°	1080.2	1078.8	1077.3	1075.4	1073.5
37.5°	1041.9	1040.5	1037.1	1036.2	1034.8
40°	1001.3	999.4	995.0	995.0	993.6
42.5°	957.7	955.8	953.0	951.0	950.1
45°	912.3	910.4	907.0	905.1	904.2
47.5°	864.0	862.5	858.7	857.3	855.8
50°	813.7	811.8	807.5	806.6	805.1
52.5°	761.1	760.2	754.4	753.9	752.5
55°	709.0	703.7	698.9	698.9	698.0
57.5°	651.6	647.7	641.5	641.5	640.6
60°	592.2	588.9	581.7	582.7	581.7
62.5°	534.4	527.2	520.5	523.4	521.0
65°	468.3	464.5	457.3	459.3	458.8
67.5°	408.1	400.9	394.2	398.0	396.1
70°	341.1	337.3	330.6	334.4	329.6
72.5°	277.9	274.6	267.9	272.2	267.4
75°	216.7	213.4	208.1	211.9	207.1
77.5°	158.8	156.4	151.6	155.5	156.4
80°	106.2	103.3	100.9	104.3	105.2
82.5°	62.2	60.3	59.3	59.8	62.2
85°	30.1	27.7	27.7	28.2	28.2
87.5°	8.1	7.2	8.1	8.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)