

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: P974905

Luminaire Tested: FLR2-24-45HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974905
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

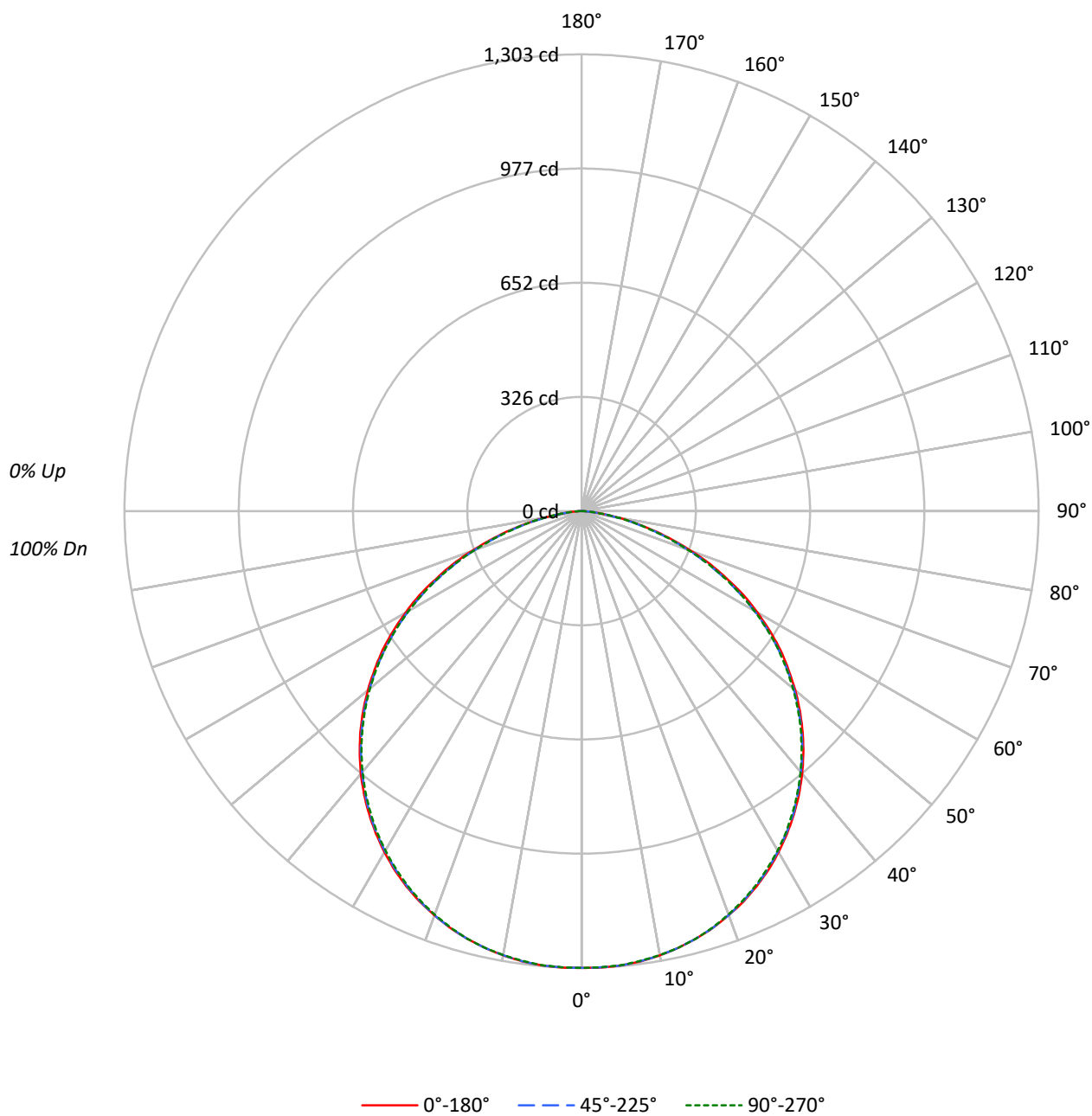
Lumens per Lamp: N/A
Luminaire Lumens: 3683.6 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1754	1754	1754
5°	1757	1757	1756
10°	1758	1758	1757
15°	1759	1758	1758
20°	1757	1756	1754
25°	1754	1750	1747
30°	1746	1741	1737
35°	1734	1730	1724
40°	1719	1708	1706
45°	1697	1687	1682
50°	1665	1652	1647
55°	1626	1603	1601
60°	1558	1530	1530
65°	1457	1423	1428
70°	1312	1271	1268
75°	1101	1057	1053
80°	804	765	797
85°	455	418	426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1697 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.4
10°-20°	356.4	9.7
20°-30°	543.4	14.8
30°-40°	658.3	17.9
40°-50°	683.8	18.6
50°-60°	611.8	16.6
60°-70°	445.9	12.1
70°-80°	220.8	6.0
80°-90°	39.5	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°	1023.5	27.8
0°-40°	1681.8	45.7
0°-60°	2977.4	80.8
0°-90°	3683.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1301	1301	1301	1301	1300	124
15°	1263	1262	1262	1263	1262	356
25°	1181	1180	1179	1178	1177	544
35°	1056	1054	1053	1051	1049	660
45°	892	890	887	885	884	687
55°	693	688	683	683	682	617
65°	458	454	447	449	448	454
75°	212	209	203	207	202	226
85°	30	27	27	28	28	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.3	1303.3	1303.3	1303.3	1303.3
2.5°	1303.3	1302.8	1302.8	1303.3	1302.4
5°	1301.0	1301.4	1301.0	1301.0	1300.0
7.5°	1295.8	1295.4	1294.9	1295.4	1294.0
10°	1286.9	1286.9	1286.5	1286.9	1286.0
12.5°	1276.2	1276.2	1276.2	1276.7	1276.2
15°	1262.6	1262.2	1262.2	1263.1	1262.2
17.5°	1246.7	1246.3	1246.3	1245.8	1244.9
20°	1227.1	1227.1	1226.6	1226.1	1224.7
22.5°	1206.0	1205.6	1204.2	1204.2	1202.3
25°	1181.3	1179.9	1178.9	1178.4	1177.0
27.5°	1154.1	1152.3	1150.9	1149.9	1148.5
30°	1123.7	1121.9	1120.5	1119.1	1118.1
32.5°	1091.0	1090.1	1087.7	1087.3	1085.4
35°	1055.9	1054.5	1053.1	1051.3	1049.4
37.5°	1018.5	1017.1	1013.8	1012.9	1011.5
40°	978.8	976.9	972.7	972.7	971.3
42.5°	936.2	934.3	931.5	929.7	928.7
45°	891.8	889.9	886.6	884.8	883.8
47.5°	844.6	843.2	839.4	838.0	836.6
50°	795.5	793.6	789.4	788.4	787.0
52.5°	744.0	743.1	737.5	737.0	735.6
55°	693.0	687.9	683.2	683.2	682.3
57.5°	636.9	633.2	627.1	627.1	626.2
60°	578.9	575.7	568.6	569.6	568.6
62.5°	522.4	515.3	508.8	511.6	509.3
65°	457.8	454.1	447.1	448.9	448.5
67.5°	398.9	391.9	385.3	389.1	387.2
70°	333.4	329.7	323.1	326.9	322.2
72.5°	271.7	268.4	261.9	266.1	261.4
75°	211.8	208.6	203.4	207.2	202.5
77.5°	155.3	152.9	148.2	152.0	152.9
80°	103.8	101.0	98.7	101.9	102.9
82.5°	60.8	58.9	58.0	58.5	60.8
85°	29.5	27.1	27.1	27.6	27.6
87.5°	7.9	7.0	7.9	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)