

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: P975080

Luminaire Tested: FLR2-24-40HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975080
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: FLR2-24-40HE-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

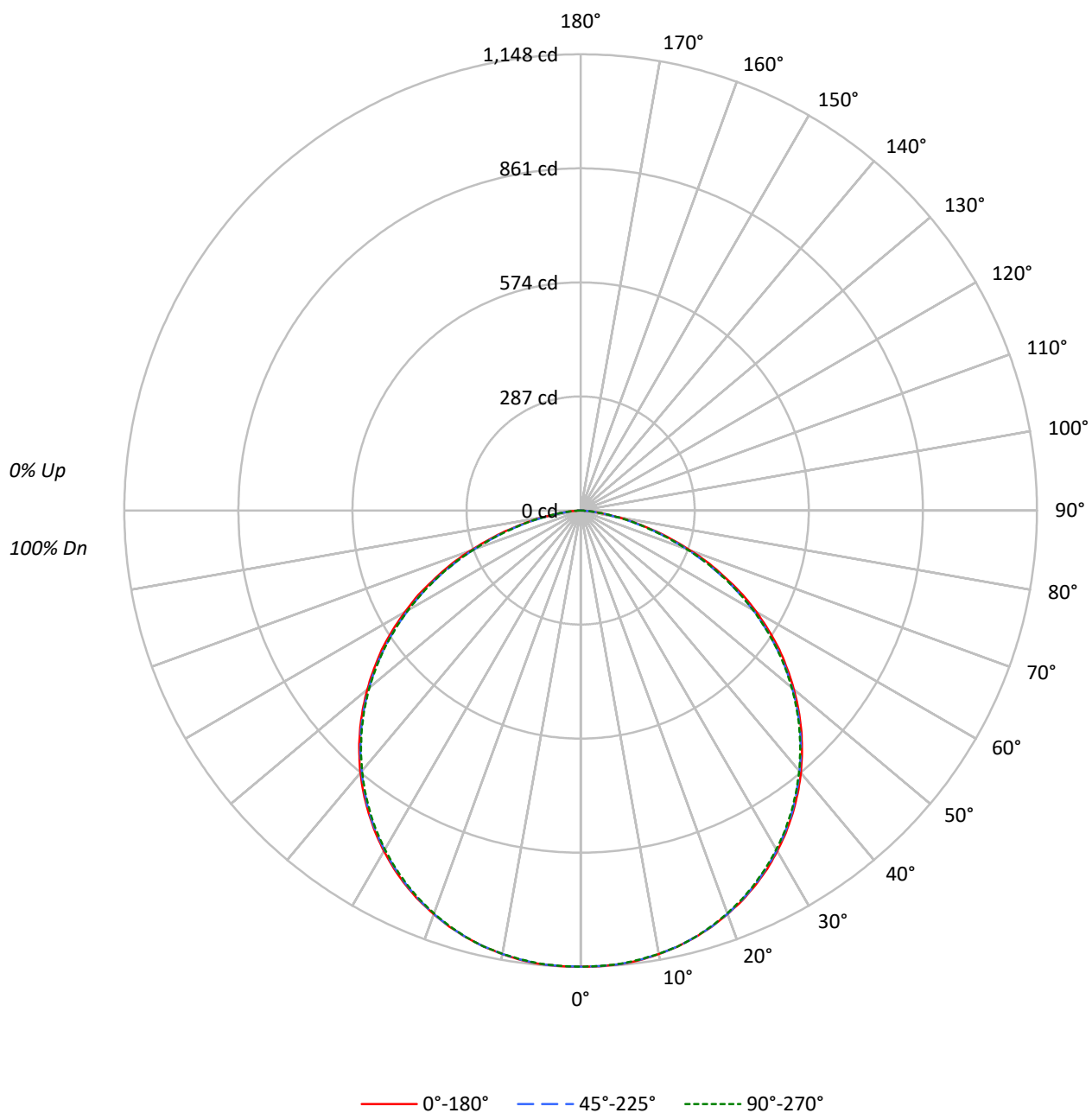
Lumens per Lamp: N/A
Luminaire Lumens: 3244.2 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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°	1544	1544	1544
5°	1548	1548	1546
10°	1549	1548	1547
15°	1549	1548	1548
20°	1547	1547	1545
25°	1544	1541	1539
30°	1538	1533	1530
35°	1528	1523	1518
40°	1514	1505	1502
45°	1494	1486	1481
50°	1467	1455	1451
55°	1432	1411	1410
60°	1372	1348	1348
65°	1284	1253	1258
70°	1155	1120	1116
75°	970	932	927
80°	708	673	702
85°	400	369	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1494 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.4
10°-20°	313.9	9.7
20°-30°	478.6	14.8
30°-40°	579.8	17.9
40°-50°	602.3	18.6
50°-60°	538.8	16.6
60°-70°	392.7	12.1
70°-80°	194.5	6.0
80°-90°	34.8	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°	901.4	27.8
0°-40°	1481.2	45.7
0°-60°	2622.3	80.8
0°-90°	3244.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1146	1146	1146	1146	1145	109
15°	1112	1112	1112	1112	1112	314
25°	1040	1039	1038	1038	1037	479
35°	930	929	928	926	924	582
45°	785	784	781	779	778	605
55°	610	606	602	602	601	544
65°	403	400	394	395	395	400
75°	187	184	179	182	178	199
85°	26	24	24	24	24	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.8	1147.8	1147.8	1147.8	1147.8
2.5°	1147.8	1147.4	1147.4	1147.8	1147.0
5°	1145.8	1146.2	1145.8	1145.8	1145.0
7.5°	1141.3	1140.8	1140.4	1140.8	1139.6
10°	1133.4	1133.4	1133.0	1133.4	1132.6
12.5°	1124.0	1124.0	1124.0	1124.4	1124.0
15°	1112.0	1111.6	1111.6	1112.4	1111.6
17.5°	1098.0	1097.6	1097.6	1097.2	1096.4
20°	1080.7	1080.7	1080.3	1079.9	1078.7
22.5°	1062.2	1061.8	1060.5	1060.5	1058.9
25°	1040.3	1039.1	1038.3	1037.9	1036.6
27.5°	1016.5	1014.8	1013.6	1012.8	1011.5
30°	989.7	988.0	986.8	985.6	984.7
32.5°	960.9	960.0	958.0	957.6	955.9
35°	930.0	928.7	927.5	925.9	924.2
37.5°	897.0	895.8	892.9	892.1	890.8
40°	862.0	860.4	856.7	856.7	855.4
42.5°	824.5	822.9	820.4	818.8	817.9
45°	785.4	783.8	780.9	779.2	778.4
47.5°	743.8	742.6	739.3	738.0	736.8
50°	700.6	698.9	695.2	694.4	693.2
52.5°	655.3	654.4	649.5	649.1	647.8
55°	610.4	605.8	601.7	601.7	600.9
57.5°	560.9	557.7	552.3	552.3	551.5
60°	509.9	507.0	500.8	501.6	500.8
62.5°	460.0	453.9	448.1	450.6	448.5
65°	403.2	399.9	393.7	395.4	395.0
67.5°	351.3	345.1	339.4	342.7	341.0
70°	293.7	290.4	284.6	287.9	283.8
72.5°	239.3	236.4	230.6	234.3	230.2
75°	186.6	183.7	179.2	182.5	178.3
77.5°	136.7	134.7	130.6	133.9	134.7
80°	91.4	89.0	86.9	89.8	90.6
82.5°	53.5	51.9	51.1	51.5	53.5
85°	25.9	23.9	23.9	24.3	24.3
87.5°	7.0	6.2	7.0	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)