

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: P975116

Luminaire Tested: FLR2-24-65HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975116
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: FLR2-24-65HE-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

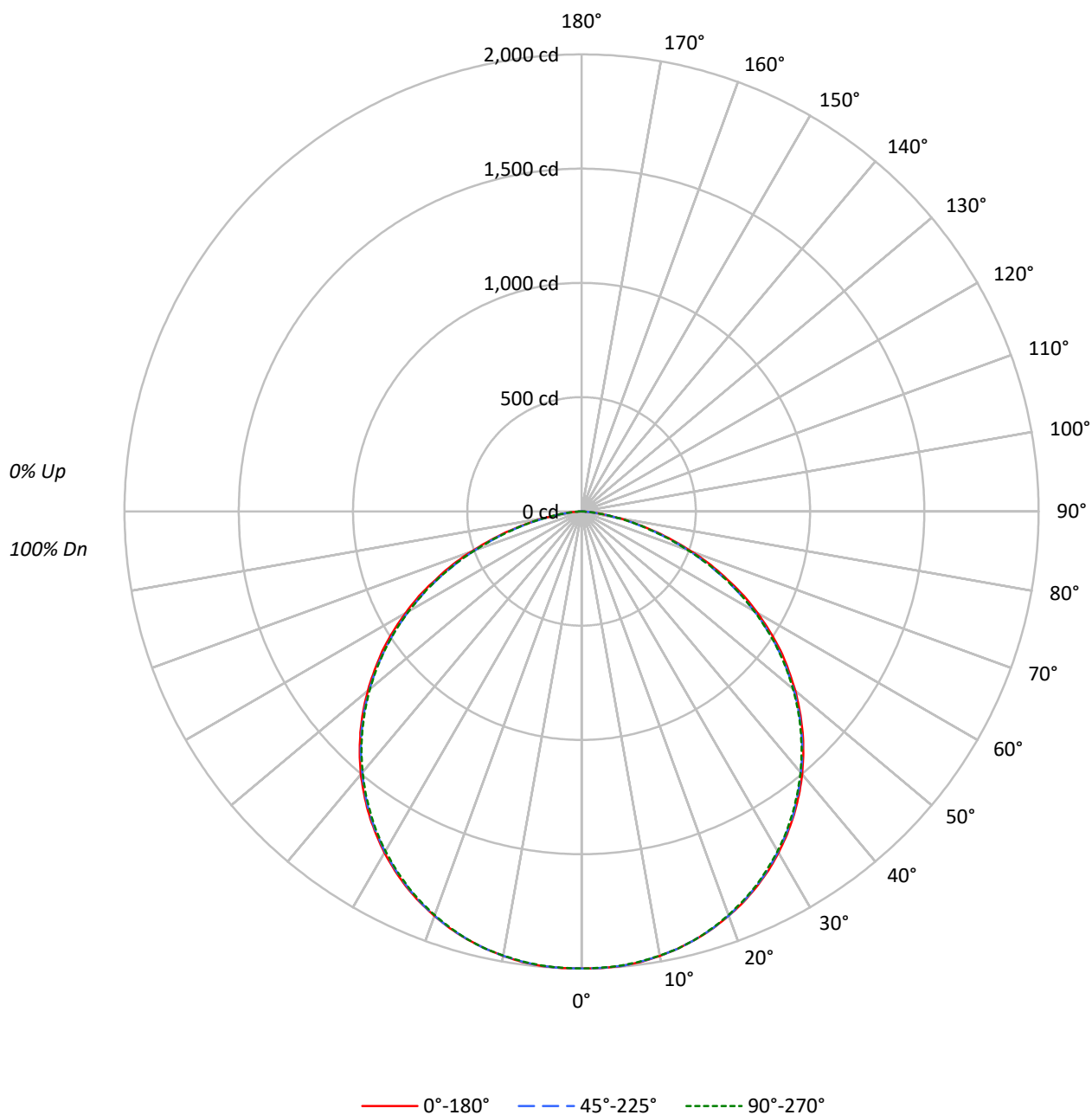
Lumens per Lamp: N/A
Luminaire Lumens: 5653.1 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2691	2691	2691
5°	2697	2697	2695
10°	2698	2697	2696
15°	2699	2698	2698
20°	2696	2695	2691
25°	2691	2686	2682
30°	2679	2672	2666
35°	2662	2655	2645
40°	2638	2622	2618
45°	2604	2589	2581
50°	2555	2536	2528
55°	2495	2460	2456
60°	2391	2348	2348
65°	2237	2184	2191
70°	2013	1951	1945
75°	1690	1623	1616
80°	1234	1173	1223
85°	698	642	653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	3.4
10°-20°	547.0	9.7
20°-30°	833.9	14.8
30°-40°	1010.4	17.9
40°-50°	1049.5	18.6
50°-60°	938.8	16.6
60°-70°	684.2	12.1
70°-80°	338.9	6.0
80°-90°	60.6	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°	1570.7	27.8
0°-40°	2581.1	45.7
0°-60°	4569.4	80.8
0°-90°	5653.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5653.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1997	1997	1997	1997	1995	190
15°	1938	1937	1937	1938	1937	547
25°	1813	1811	1809	1809	1806	836
35°	1620	1618	1616	1613	1610	1014
45°	1369	1366	1361	1358	1356	1055
55°	1064	1056	1048	1048	1047	948
65°	703	697	686	689	688	697
75°	325	320	312	318	311	347
85°	45	42	42	42	42	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.2	2000.2	2000.2	2000.2	2000.2
2.5°	2000.2	1999.5	1999.5	2000.2	1998.7
5°	1996.6	1997.3	1996.6	1996.6	1995.2
7.5°	1988.7	1988.0	1987.3	1988.0	1985.8
10°	1975.1	1975.1	1974.3	1975.1	1973.6
12.5°	1958.6	1958.6	1958.6	1959.3	1958.6
15°	1937.7	1937.0	1937.0	1938.5	1937.0
17.5°	1913.3	1912.6	1912.6	1911.9	1910.5
20°	1883.2	1883.2	1882.5	1881.8	1879.6
22.5°	1850.9	1850.2	1848.0	1848.0	1845.2
25°	1812.9	1810.7	1809.3	1808.6	1806.4
27.5°	1771.2	1768.4	1766.2	1764.8	1762.6
30°	1724.6	1721.7	1719.6	1717.4	1716.0
32.5°	1674.3	1672.9	1669.3	1668.6	1665.7
35°	1620.5	1618.4	1616.2	1613.3	1610.5
37.5°	1563.1	1561.0	1555.9	1554.5	1552.3
40°	1502.1	1499.2	1492.8	1492.8	1490.6
42.5°	1436.8	1433.9	1429.6	1426.7	1425.3
45°	1368.6	1365.7	1360.7	1357.9	1356.4
47.5°	1296.1	1294.0	1288.2	1286.1	1283.9
50°	1220.8	1217.9	1211.4	1210.0	1207.9
52.5°	1141.8	1140.4	1131.8	1131.1	1128.9
55°	1063.6	1055.7	1048.5	1048.5	1047.1
57.5°	977.5	971.7	962.4	962.4	961.0
60°	888.5	883.5	872.7	874.1	872.7
62.5°	801.6	790.9	780.8	785.1	781.6
65°	702.6	696.9	686.1	689.0	688.3
67.5°	612.2	601.4	591.4	597.1	594.2
70°	511.7	506.0	495.9	501.7	494.5
72.5°	417.0	411.9	401.9	408.4	401.2
75°	325.1	320.1	312.2	317.9	310.8
77.5°	238.3	234.7	227.5	233.2	234.7
80°	159.3	155.0	151.4	156.5	157.9
82.5°	93.3	90.4	89.0	89.7	93.3
85°	45.2	41.6	41.6	42.3	42.3
87.5°	12.2	10.8	12.2	12.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)