

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: P975006

Luminaire Tested: FLR2-24-65HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975006
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-L850-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

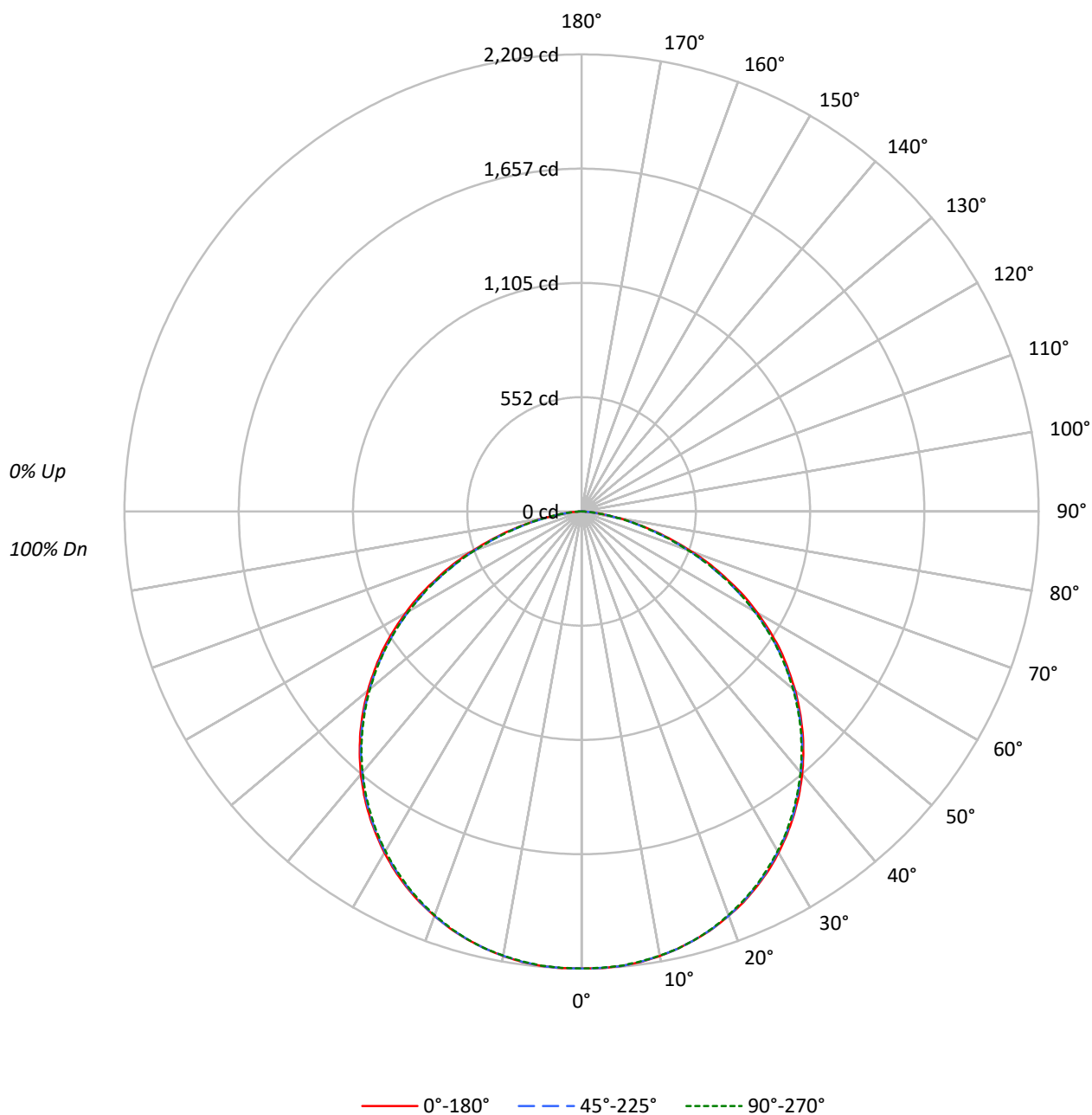
Lumens per Lamp: N/A
Luminaire Lumens: 6244.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2973	2973	2973
5°	2979	2979	2977
10°	2981	2980	2979
15°	2981	2980	2980
20°	2979	2977	2973
25°	2973	2967	2962
30°	2960	2951	2945
35°	2940	2932	2922
40°	2914	2896	2892
45°	2877	2860	2851
50°	2823	2801	2793
55°	2756	2717	2713
60°	2641	2594	2594
65°	2471	2413	2420
70°	2223	2155	2149
75°	1867	1792	1785
80°	1364	1296	1351
85°	770	710	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	3.4
10°-20°	604.2	9.7
20°-30°	921.1	14.8
30°-40°	1116.0	17.9
40°-50°	1159.3	18.6
50°-60°	1037.1	16.6
60°-70°	755.8	12.1
70°-80°	374.3	6.0
80°-90°	66.9	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°	1735.0	27.8
0°-40°	2851.0	45.7
0°-60°	5047.4	80.8
0°-90°	6244.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6244.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2205	2206	2205	2205	2204	210
15°	2140	2140	2140	2141	2140	604
25°	2002	2000	1998	1998	1995	923
35°	1790	1788	1785	1782	1779	1120
45°	1512	1509	1503	1500	1498	1165
55°	1175	1166	1158	1158	1157	1047
65°	776	770	758	761	760	769
75°	359	354	345	351	343	383
85°	50	46	46	47	47	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2209.4	2209.4	2209.4	2209.4	2209.4
2.5°	2209.4	2208.6	2208.6	2209.4	2207.8
5°	2205.4	2206.2	2205.4	2205.4	2203.8
7.5°	2196.7	2195.9	2195.1	2195.9	2193.5
10°	2181.6	2181.6	2180.8	2181.6	2180.1
12.5°	2163.4	2163.4	2163.4	2164.2	2163.4
15°	2140.4	2139.6	2139.6	2141.2	2139.6
17.5°	2113.5	2112.7	2112.7	2111.9	2110.3
20°	2080.2	2080.2	2079.4	2078.6	2076.2
22.5°	2044.5	2043.7	2041.3	2041.3	2038.2
25°	2002.5	2000.1	1998.5	1997.7	1995.3
27.5°	1956.5	1953.3	1951.0	1949.4	1947.0
30°	1905.0	1901.8	1899.4	1897.0	1895.5
32.5°	1849.5	1847.9	1843.9	1843.1	1840.0
35°	1790.0	1787.6	1785.3	1782.1	1778.9
37.5°	1726.6	1724.2	1718.7	1717.1	1714.7
40°	1659.2	1656.1	1648.9	1648.9	1646.5
42.5°	1587.1	1583.9	1579.2	1576.0	1574.4
45°	1511.8	1508.6	1503.1	1499.9	1498.3
47.5°	1431.7	1429.3	1423.0	1420.6	1418.2
50°	1348.5	1345.3	1338.2	1336.6	1334.2
52.5°	1261.3	1259.7	1250.2	1249.4	1247.0
55°	1174.9	1166.1	1158.2	1158.2	1156.6
57.5°	1079.7	1073.4	1063.1	1063.1	1061.5
60°	981.4	975.9	964.0	965.6	964.0
62.5°	885.5	873.6	862.5	867.3	863.3
65°	776.1	769.8	757.9	761.0	760.2
67.5°	676.2	664.3	653.2	659.6	656.4
70°	565.2	558.9	547.8	554.1	546.2
72.5°	460.6	455.0	443.9	451.1	443.1
75°	359.1	353.6	344.8	351.2	343.3
77.5°	263.2	259.2	251.3	257.6	259.2
80°	176.0	171.2	167.3	172.8	174.4
82.5°	103.1	99.9	98.3	99.1	103.1
85°	49.9	46.0	46.0	46.8	46.8
87.5°	13.5	11.9	13.5	14.3	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)