

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: P975017

Luminaire Tested: FLR2-24-65HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975017
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

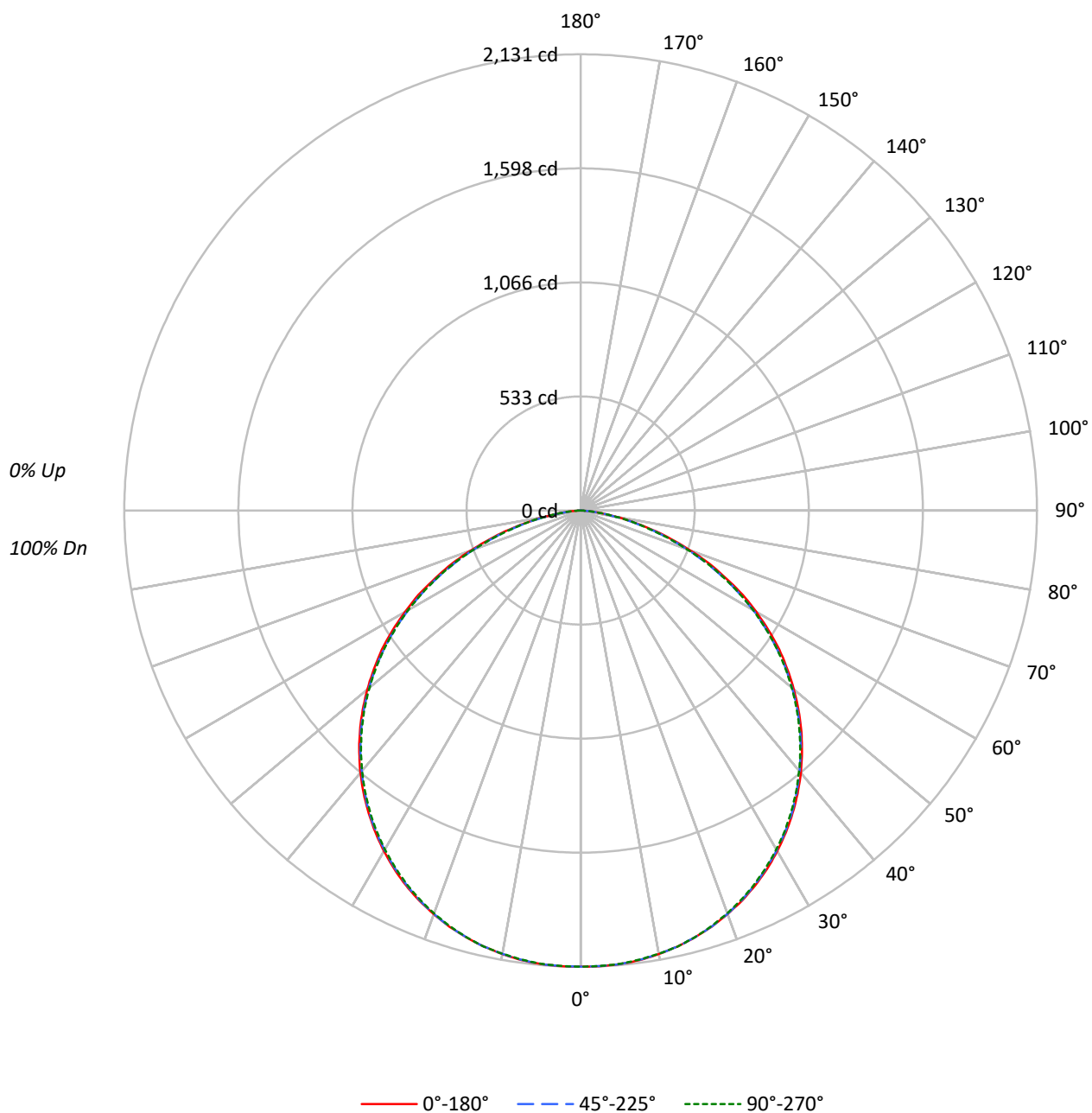
Lumens per Lamp: N/A
Luminaire Lumens: 6021.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2867	2867	2867
5°	2873	2873	2870
10°	2874	2873	2872
15°	2875	2874	2874
20°	2872	2871	2867
25°	2867	2861	2857
30°	2854	2846	2840
35°	2835	2828	2818
40°	2810	2793	2789
45°	2774	2758	2749
50°	2722	2701	2693
55°	2658	2620	2616
60°	2547	2502	2502
65°	2383	2327	2334
70°	2144	2078	2072
75°	1800	1729	1721
80°	1315	1250	1303
85°	744	684	696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	3.4
10°-20°	582.6	9.7
20°-30°	888.3	14.8
30°-40°	1076.2	17.9
40°-50°	1117.9	18.6
50°-60°	1000.1	16.6
60°-70°	728.9	12.1
70°-80°	361.0	6.0
80°-90°	64.5	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°	1673.2	27.8
0°-40°	2749.4	45.7
0°-60°	4867.4	80.8
0°-90°	6021.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6021.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2127	2128	2127	2127	2125	202
15°	2064	2063	2063	2065	2063	583
25°	1931	1929	1927	1926	1924	890
35°	1726	1724	1722	1718	1716	1080
45°	1458	1455	1450	1446	1445	1124
55°	1133	1124	1117	1117	1115	1009
65°	748	742	731	734	733	742
75°	346	341	332	339	331	369
85°	48	44	44	45	45	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2130.6	2130.6	2130.6	2130.6	2130.6
2.5°	2130.6	2129.8	2129.8	2130.6	2129.1
5°	2126.8	2127.5	2126.8	2126.8	2125.3
7.5°	2118.4	2117.6	2116.8	2117.6	2115.3
10°	2103.8	2103.8	2103.1	2103.8	2102.3
12.5°	2086.3	2086.3	2086.3	2087.0	2086.3
15°	2064.1	2063.3	2063.3	2064.9	2063.3
17.5°	2038.1	2037.3	2037.3	2036.6	2035.0
20°	2006.0	2006.0	2005.2	2004.5	2002.2
22.5°	1971.6	1970.8	1968.5	1968.5	1965.5
25°	1931.1	1928.8	1927.3	1926.5	1924.2
27.5°	1886.7	1883.7	1881.4	1879.9	1877.6
30°	1837.0	1834.0	1831.7	1829.4	1827.9
32.5°	1783.5	1782.0	1778.2	1777.4	1774.4
35°	1726.2	1723.9	1721.6	1718.5	1715.5
37.5°	1665.0	1662.7	1657.4	1655.9	1653.6
40°	1600.1	1597.0	1590.1	1590.1	1587.8
42.5°	1530.5	1527.4	1522.8	1519.8	1518.3
45°	1457.9	1454.8	1449.5	1446.4	1444.9
47.5°	1380.6	1378.4	1372.2	1369.9	1367.7
50°	1300.4	1297.3	1290.4	1288.9	1286.6
52.5°	1216.3	1214.8	1205.6	1204.8	1202.5
55°	1133.0	1124.5	1116.9	1116.9	1115.4
57.5°	1041.2	1035.1	1025.2	1025.2	1023.6
60°	946.4	941.1	929.6	931.1	929.6
62.5°	853.9	842.5	831.8	836.3	832.5
65°	748.4	742.3	730.8	733.9	733.1
67.5°	652.1	640.6	629.9	636.0	633.0
70°	545.1	539.0	528.3	534.4	526.7
72.5°	444.2	438.8	428.1	435.0	427.3
75°	346.3	341.0	332.5	338.7	331.0
77.5°	253.8	250.0	242.3	248.5	250.0
80°	169.7	165.1	161.3	166.7	168.2
82.5°	99.4	96.3	94.8	95.6	99.4
85°	48.2	44.3	44.3	45.1	45.1
87.5°	13.0	11.5	13.0	13.8	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)