

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: P974698

Luminaire Tested: FLR2-24-65HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974698
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-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

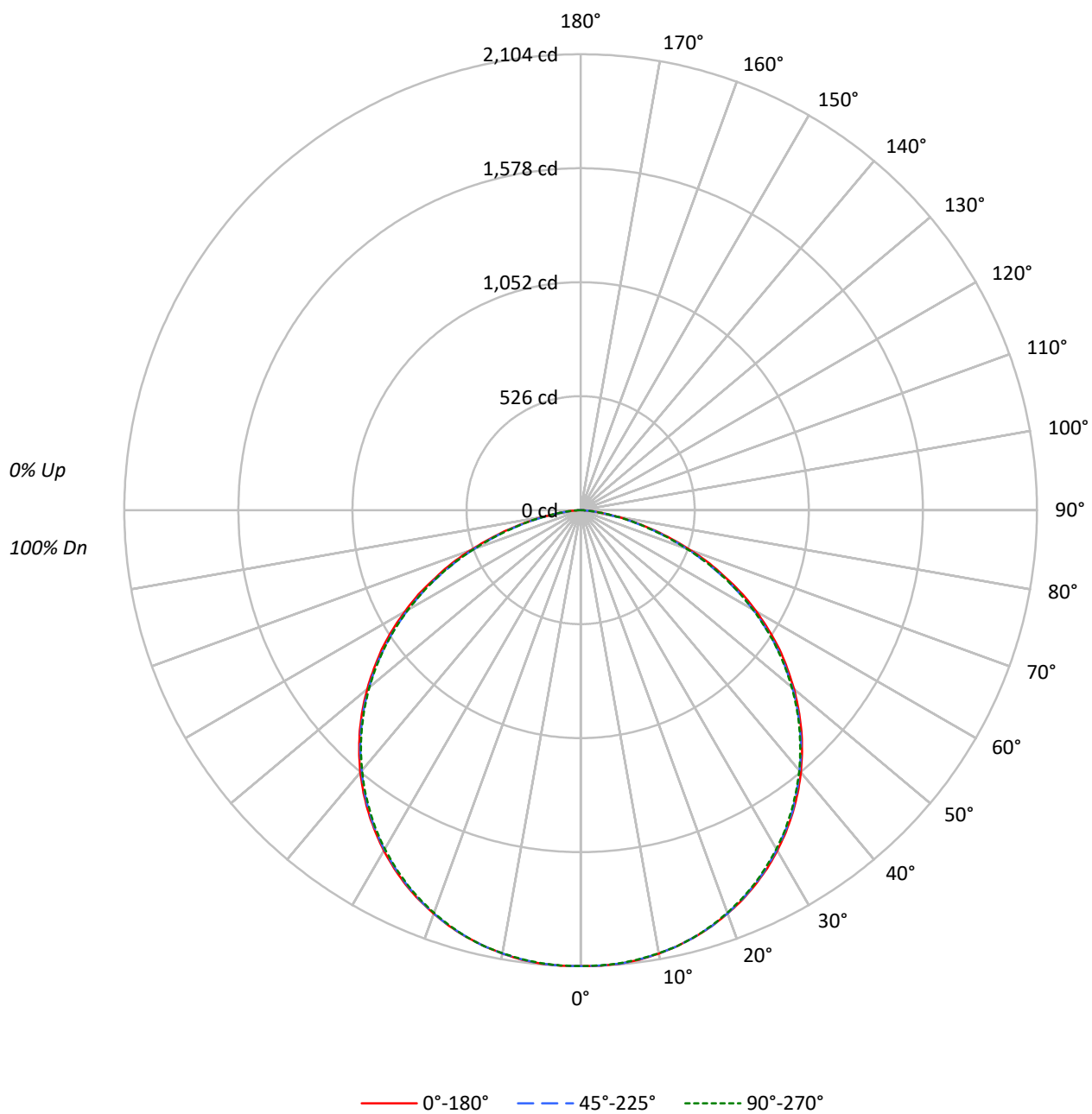
Lumens per Lamp: N/A
Luminaire Lumens: 5947.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P974698

CATALOG NUMBER: FLR2-24-65HE-L835-CP250

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°	2831	2831	2831
5°	2837	2837	2835
10°	2839	2838	2837
15°	2840	2838	2838
20°	2837	2836	2831
25°	2831	2826	2821
30°	2819	2811	2805
35°	2800	2793	2783
40°	2775	2758	2754
45°	2740	2724	2715
50°	2688	2668	2660
55°	2625	2588	2584
60°	2515	2471	2471
65°	2353	2298	2305
70°	2118	2052	2046
75°	1778	1707	1699
80°	1299	1234	1287
85°	735	676	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2740 cd/sqm

TEST NUMBER: P974698

CATALOG NUMBER: FLR2-24-65HE-L835-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	3.4
10°-20°	575.4	9.7
20°-30°	877.3	14.8
30°-40°	1062.9	17.9
40°-50°	1104.1	18.6
50°-60°	987.7	16.6
60°-70°	719.8	12.1
70°-80°	356.5	6.0
80°-90°	63.7	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°	1652.4	27.8
0°-40°	2715.3	45.7
0°-60°	4807.0	80.8
0°-90°	5947.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5947.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2100	2101	2100	2100	2099	200
15°	2038	2038	2038	2039	2038	576
25°	1907	1905	1903	1903	1900	879
35°	1705	1702	1700	1697	1694	1066
45°	1440	1437	1432	1428	1427	1110
55°	1119	1111	1103	1103	1102	997
65°	739	733	722	725	724	733
75°	342	337	328	334	327	365
85°	48	44	44	44	44	66
90°	0	0	0	0	0	

TEST NUMBER: P974698

CATALOG NUMBER: FLR2-24-65HE-L835-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.2	2104.2	2104.2	2104.2	2104.2
2.5°	2104.2	2103.4	2103.4	2104.2	2102.7
5°	2100.4	2101.2	2100.4	2100.4	2098.9
7.5°	2092.1	2091.3	2090.6	2091.3	2089.1
10°	2077.8	2077.8	2077.0	2077.8	2076.2
12.5°	2060.4	2060.4	2060.4	2061.1	2060.4
15°	2038.5	2037.7	2037.7	2039.2	2037.7
17.5°	2012.8	2012.1	2012.1	2011.3	2009.8
20°	1981.1	1981.1	1980.4	1979.6	1977.3
22.5°	1947.1	1946.4	1944.1	1944.1	1941.1
25°	1907.1	1904.9	1903.4	1902.6	1900.3
27.5°	1863.3	1860.3	1858.1	1856.5	1854.3
30°	1814.3	1811.2	1809.0	1806.7	1805.2
32.5°	1761.4	1759.9	1756.1	1755.4	1752.4
35°	1704.8	1702.5	1700.3	1697.2	1694.2
37.5°	1644.4	1642.1	1636.8	1635.3	1633.1
40°	1580.2	1577.2	1570.4	1570.4	1568.1
42.5°	1511.5	1508.5	1504.0	1500.9	1499.4
45°	1439.8	1436.8	1431.5	1428.5	1426.9
47.5°	1363.5	1361.3	1355.2	1353.0	1350.7
50°	1284.3	1281.2	1274.4	1272.9	1270.7
52.5°	1201.2	1199.7	1190.6	1189.9	1187.6
55°	1118.9	1110.6	1103.1	1103.1	1101.5
57.5°	1028.3	1022.3	1012.5	1012.5	1010.9
60°	934.7	929.4	918.1	919.6	918.1
62.5°	843.3	832.0	821.4	826.0	822.2
65°	739.1	733.1	721.8	724.8	724.0
67.5°	644.0	632.7	622.1	628.2	625.1
70°	538.3	532.3	521.7	527.7	520.2
72.5°	438.7	433.4	422.8	429.6	422.0
75°	342.0	336.7	328.4	334.5	326.9
77.5°	250.7	246.9	239.3	245.4	246.9
80°	167.6	163.1	159.3	164.6	166.1
82.5°	98.1	95.1	93.6	94.4	98.1
85°	47.6	43.8	43.8	44.5	44.5
87.5°	12.8	11.3	12.8	13.6	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)