

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: P974654

Luminaire Tested: FLR2-24-65HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974654
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-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

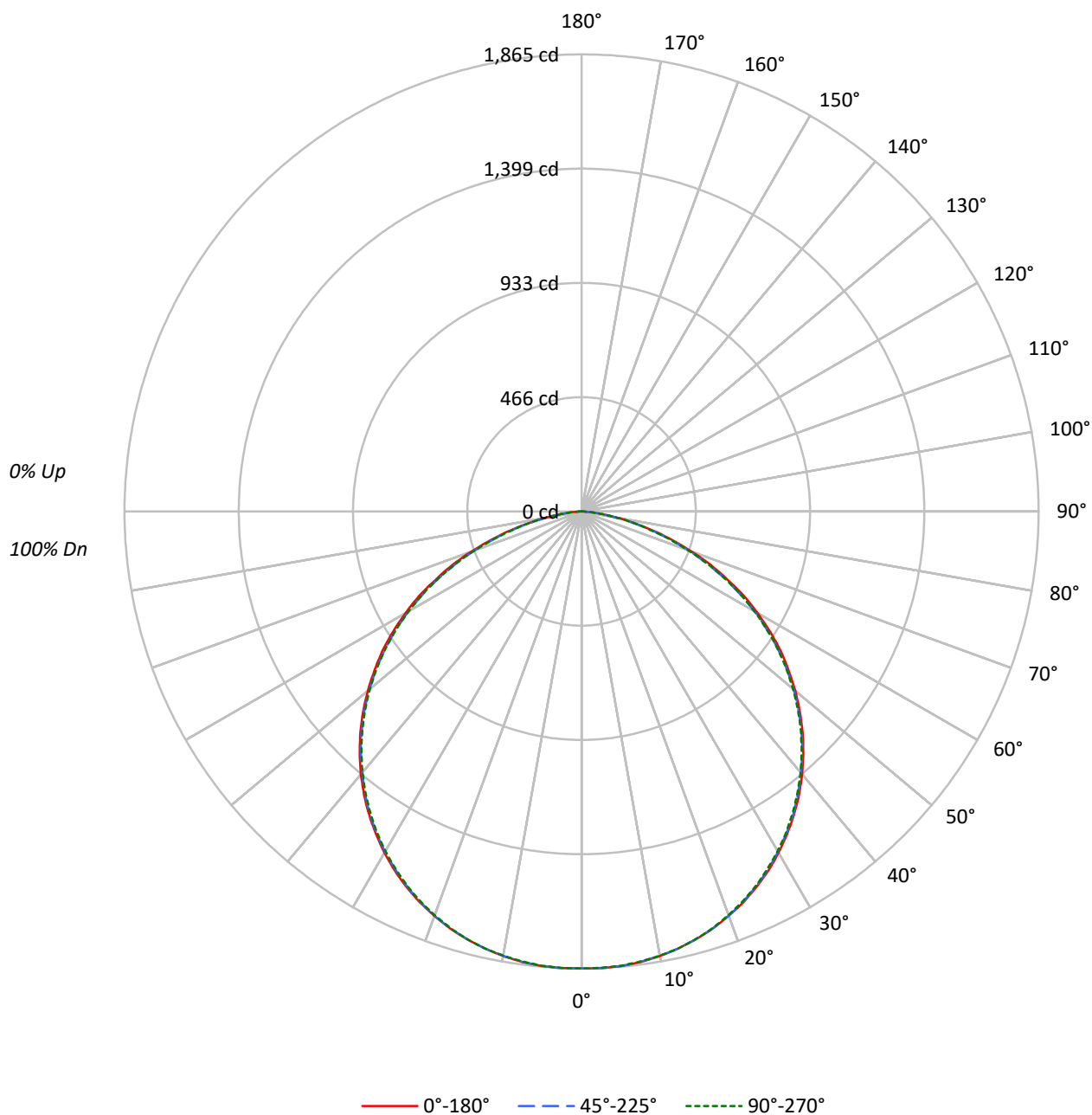
Lumens per Lamp: N/A
Luminaire Lumens: 5272.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974654

CATALOG NUMBER: FLR2-24-65HE-L930-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974654

CATALOG NUMBER: FLR2-24-65HE-L930-CA125

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°	2510	2510	2510
5°	2515	2515	2513
10°	2516	2516	2515
15°	2517	2516	2516
20°	2515	2514	2510
25°	2510	2505	2501
30°	2499	2491	2486
35°	2482	2476	2467
40°	2460	2445	2442
45°	2429	2415	2407
50°	2383	2365	2358
55°	2327	2294	2291
60°	2230	2190	2190
65°	2086	2037	2044
70°	1877	1819	1814
75°	1576	1513	1507
80°	1151	1094	1141
85°	651	599	610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2429 cd/sqm

TEST NUMBER: P974654

CATALOG NUMBER: FLR2-24-65HE-L930-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	3.4
10°-20°	510.1	9.7
20°-30°	777.7	14.8
30°-40°	942.2	17.9
40°-50°	978.7	18.6
50°-60°	875.5	16.6
60°-70°	638.1	12.1
70°-80°	316.0	6.0
80°-90°	56.5	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°	1464.8	27.8
0°-40°	2407.1	45.7
0°-60°	4261.4	80.8
0°-90°	5272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1865	1865	1865	1865	1865	
5°	1862	1863	1862	1862	1861	177
15°	1807	1806	1806	1808	1806	510
25°	1691	1689	1687	1687	1685	779
35°	1511	1509	1507	1505	1502	945
45°	1276	1274	1269	1266	1265	984
55°	992	984	978	978	976	884
65°	655	650	640	642	642	650
75°	303	298	291	296	290	323
85°	42	39	39	40	40	58
90°	0	0	0	0	0	

TEST NUMBER: P974654

CATALOG NUMBER: FLR2-24-65HE-L930-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1865.3	1865.3	1865.3	1865.3	1865.3
2.5°	1865.3	1864.7	1864.7	1865.3	1864.0
5°	1862.0	1862.7	1862.0	1862.0	1860.6
7.5°	1854.6	1854.0	1853.3	1854.0	1851.9
10°	1841.9	1841.9	1841.2	1841.9	1840.6
12.5°	1826.5	1826.5	1826.5	1827.2	1826.5
15°	1807.1	1806.4	1806.4	1807.8	1806.4
17.5°	1784.3	1783.7	1783.7	1783.0	1781.7
20°	1756.2	1756.2	1755.6	1754.9	1752.9
22.5°	1726.1	1725.5	1723.4	1723.4	1720.8
25°	1690.6	1688.6	1687.3	1686.6	1684.6
27.5°	1651.8	1649.2	1647.1	1645.8	1643.8
30°	1608.3	1605.6	1603.6	1601.6	1600.3
32.5°	1561.5	1560.1	1556.8	1556.1	1553.4
35°	1511.3	1509.3	1507.3	1504.6	1501.9
37.5°	1457.7	1455.7	1451.0	1449.7	1447.7
40°	1400.8	1398.2	1392.1	1392.1	1390.1
42.5°	1339.9	1337.3	1333.2	1330.6	1329.2
45°	1276.4	1273.7	1269.0	1266.3	1265.0
47.5°	1208.8	1206.7	1201.4	1199.4	1197.4
50°	1138.5	1135.8	1129.8	1128.4	1126.4
52.5°	1064.9	1063.5	1055.5	1054.8	1052.8
55°	991.9	984.5	977.8	977.8	976.5
57.5°	911.6	906.2	897.5	897.5	896.2
60°	828.6	823.9	813.9	815.2	813.9
62.5°	747.6	737.6	728.2	732.2	728.9
65°	655.2	649.9	639.8	642.5	641.9
67.5°	570.9	560.9	551.5	556.9	554.2
70°	477.2	471.9	462.5	467.8	461.1
72.5°	388.9	384.2	374.8	380.8	374.1
75°	303.2	298.5	291.1	296.5	289.8
77.5°	222.2	218.9	212.2	217.5	218.9
80°	148.6	144.6	141.2	145.9	147.2
82.5°	87.0	84.3	83.0	83.7	87.0
85°	42.2	38.8	38.8	39.5	39.5
87.5°	11.4	10.0	11.4	12.0	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)