

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: P974753

Luminaire Tested: FLR2-24-65HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974753
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-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

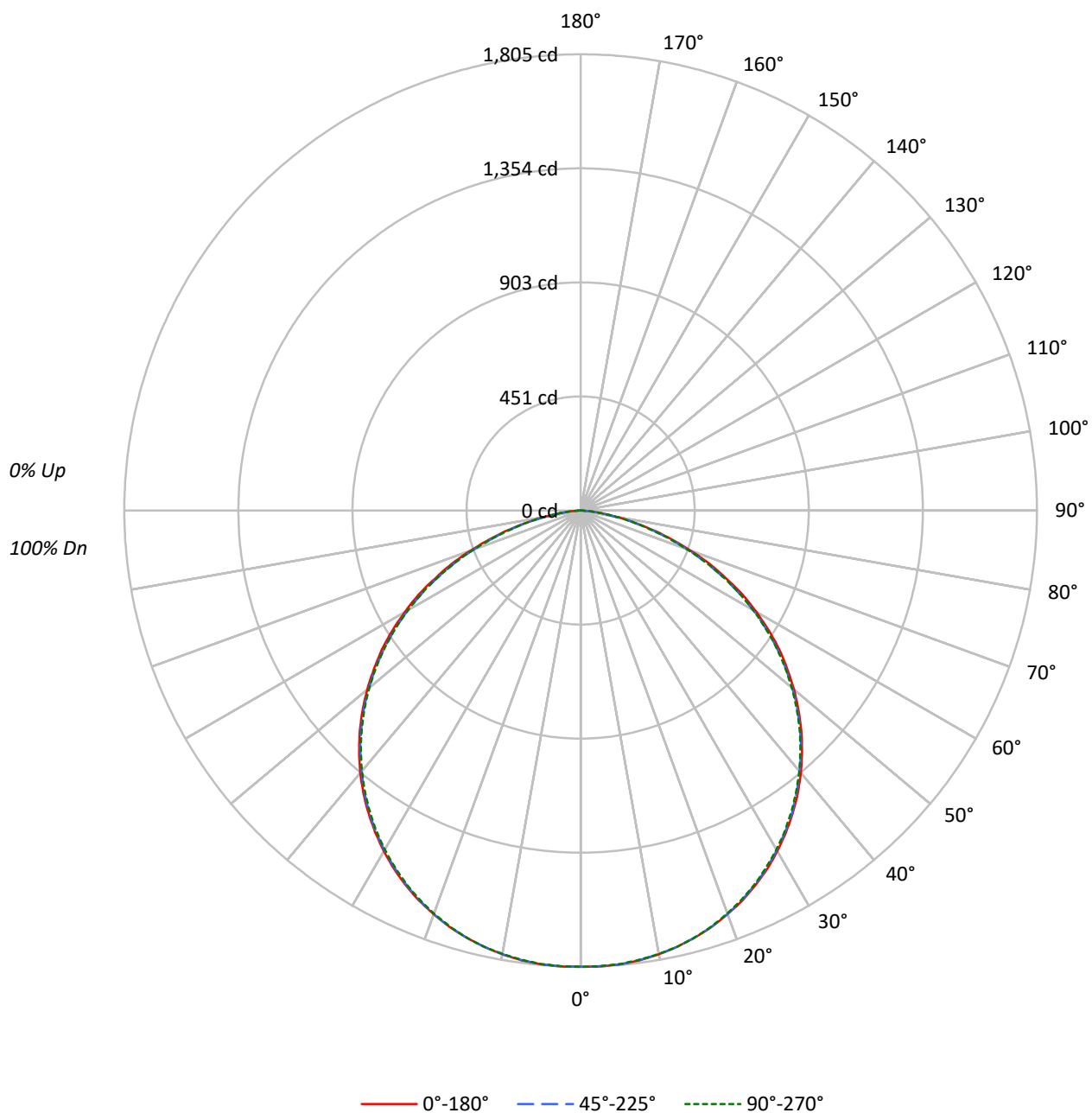
Lumens per Lamp: N/A
Luminaire Lumens: 5102.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974753

CATALOG NUMBER: FLR2-24-65HE-L935-CP125

Luminous Intensity Polar Plot



TEST NUMBER: P974753

CATALOG NUMBER: FLR2-24-65HE-L935-CP125

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2429	2429	2429
5°	2434	2434	2432
10°	2436	2435	2434
15°	2436	2435	2435
20°	2434	2433	2429
25°	2429	2424	2421
30°	2418	2411	2406
35°	2403	2396	2388
40°	2381	2367	2363
45°	2351	2337	2330
50°	2307	2289	2282
55°	2252	2220	2217
60°	2158	2120	2120
65°	2019	1972	1978
70°	1817	1761	1756
75°	1525	1465	1458
80°	1114	1059	1104
85°	630	580	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2351 cd/sqm

TEST NUMBER: P974753

CATALOG NUMBER: FLR2-24-65HE-L935-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	3.4
10°-20°	493.7	9.7
20°-30°	752.7	14.8
30°-40°	911.9	17.9
40°-50°	947.3	18.6
50°-60°	847.4	16.6
60°-70°	617.6	12.1
70°-80°	305.9	6.0
80°-90°	54.7	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°	1417.7	27.8
0°-40°	2329.7	45.7
0°-60°	4124.4	80.8
0°-90°	5102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5102.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1802	1803	1802	1802	1801	171
15°	1749	1748	1748	1750	1748	494
25°	1636	1634	1633	1632	1630	754
35°	1463	1461	1459	1456	1454	915
45°	1235	1233	1228	1226	1224	952
55°	960	953	946	946	945	855
65°	634	629	619	622	621	629
75°	293	289	282	287	280	313
85°	41	38	38	38	38	57
90°	0	0	0	0	0	

TEST NUMBER: P974753

CATALOG NUMBER: FLR2-24-65HE-L935-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.4	1805.4	1805.4	1805.4	1805.4
2.5°	1805.4	1804.7	1804.7	1805.4	1804.1
5°	1802.1	1802.8	1802.1	1802.1	1800.8
7.5°	1795.0	1794.3	1793.7	1794.3	1792.4
10°	1782.7	1782.7	1782.0	1782.7	1781.4
12.5°	1767.8	1767.8	1767.8	1768.4	1767.8
15°	1749.0	1748.4	1748.4	1749.6	1748.4
17.5°	1727.0	1726.3	1726.3	1725.7	1724.4
20°	1699.8	1699.8	1699.1	1698.5	1696.5
22.5°	1670.6	1670.0	1668.0	1668.0	1665.4
25°	1636.3	1634.3	1633.0	1632.4	1630.5
27.5°	1598.7	1596.1	1594.2	1592.9	1590.9
30°	1556.6	1554.0	1552.1	1550.1	1548.8
32.5°	1511.3	1510.0	1506.7	1506.1	1503.5
35°	1462.7	1460.7	1458.8	1456.2	1453.6
37.5°	1410.9	1408.9	1404.4	1403.1	1401.1
40°	1355.8	1353.2	1347.4	1347.4	1345.4
42.5°	1296.8	1294.3	1290.4	1287.8	1286.5
45°	1235.3	1232.7	1228.2	1225.6	1224.3
47.5°	1169.9	1167.9	1162.8	1160.8	1158.9
50°	1101.9	1099.3	1093.4	1092.2	1090.2
52.5°	1030.6	1029.3	1021.5	1020.9	1019.0
55°	960.0	952.9	946.4	946.4	945.1
57.5°	882.3	877.1	868.7	868.7	867.4
60°	801.9	797.4	787.7	789.0	787.7
62.5°	723.6	713.9	704.8	708.7	705.4
65°	634.2	629.0	619.3	621.9	621.2
67.5°	552.6	542.8	533.8	539.0	536.4
70°	461.9	456.7	447.6	452.8	446.3
72.5°	376.4	371.8	362.8	368.6	362.1
75°	293.4	288.9	281.8	287.0	280.5
77.5°	215.1	211.8	205.3	210.5	211.8
80°	143.8	139.9	136.7	141.2	142.5
82.5°	84.2	81.6	80.3	81.0	84.2
85°	40.8	37.6	37.6	38.2	38.2
87.5°	11.0	9.7	11.0	11.7	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)