

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: P974776

Luminaire Tested: FLR2-24-72HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974776
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: FLR2-24-72HE-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

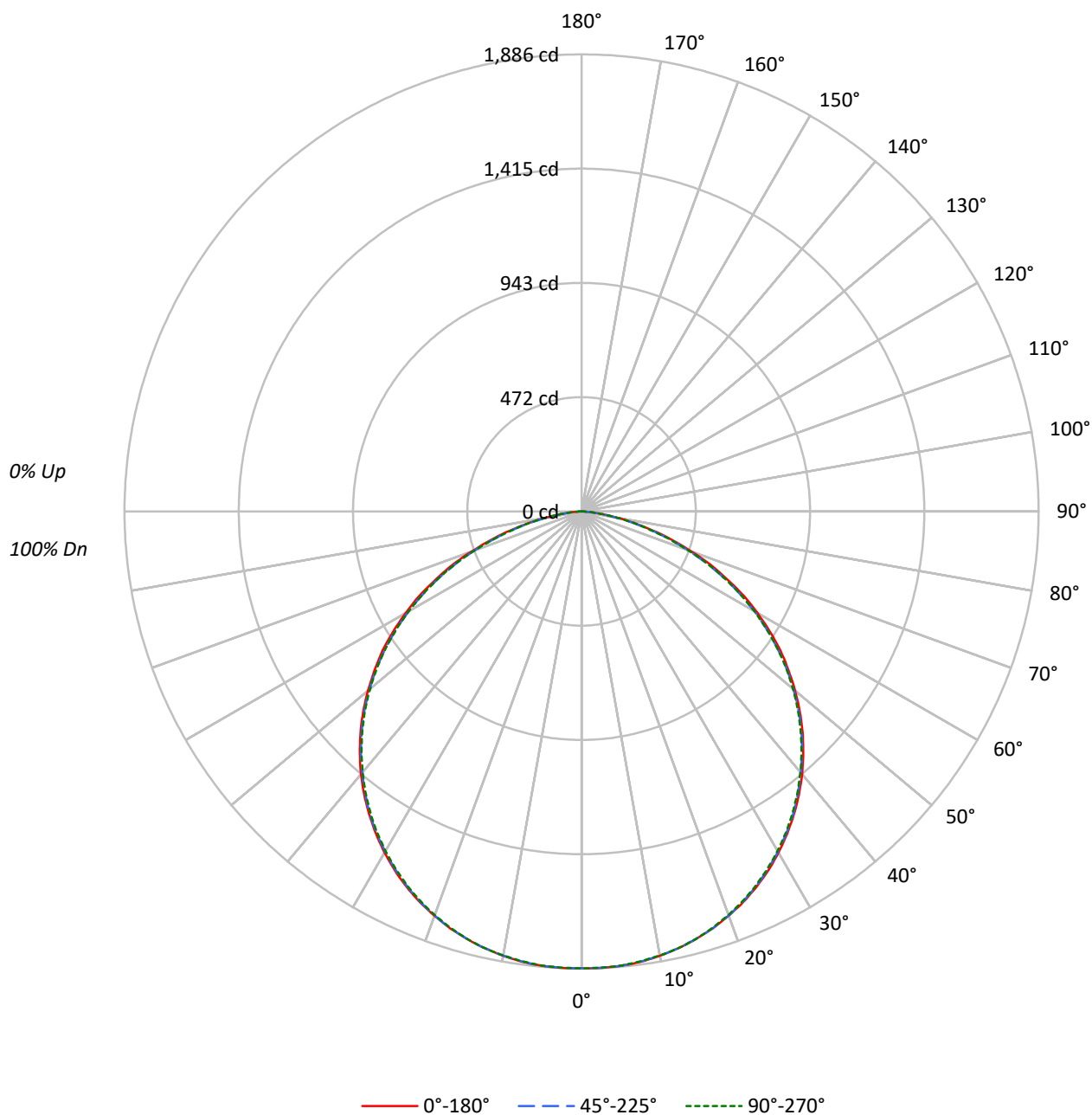
Lumens per Lamp: N/A
Luminaire Lumens: 5329.3 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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: P974776

CATALOG NUMBER: FLR2-24-72HE-L935-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P974776

CATALOG NUMBER: FLR2-24-72HE-L935-CP250

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°	2537	2537	2537
5°	2542	2542	2540
10°	2544	2543	2542
15°	2545	2544	2544
20°	2542	2541	2537
25°	2537	2532	2528
30°	2526	2519	2513
35°	2509	2503	2494
40°	2487	2472	2468
45°	2455	2441	2433
50°	2409	2390	2384
55°	2352	2319	2316
60°	2254	2214	2214
65°	2109	2059	2066
70°	1898	1839	1834
75°	1593	1530	1523
80°	1164	1106	1153
85°	658	605	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2455 cd/sqm

TEST NUMBER: P974776

CATALOG NUMBER: FLR2-24-72HE-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.4
10°-20°	515.6	9.7
20°-30°	786.1	14.8
30°-40°	952.5	17.9
40°-50°	989.4	18.6
50°-60°	885.1	16.6
60°-70°	645.1	12.1
70°-80°	319.4	6.0
80°-90°	57.1	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°	1480.7	27.8
0°-40°	2433.2	45.7
0°-60°	4307.7	80.8
0°-90°	5329.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5329.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1882	1883	1882	1882	1881	179
15°	1827	1826	1826	1827	1826	516
25°	1709	1707	1706	1705	1703	788
35°	1528	1526	1524	1521	1518	956
45°	1290	1288	1283	1280	1279	994
55°	1003	995	988	988	987	893
65°	662	657	647	650	649	657
75°	306	302	294	300	293	327
85°	43	39	39	40	40	59
90°	0	0	0	0	0	

TEST NUMBER: P974776

CATALOG NUMBER: FLR2-24-72HE-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.6	1885.6	1885.6	1885.6	1885.6
2.5°	1885.6	1884.9	1884.9	1885.6	1884.2
5°	1882.2	1882.9	1882.2	1882.2	1880.9
7.5°	1874.8	1874.1	1873.4	1874.1	1872.1
10°	1861.9	1861.9	1861.2	1861.9	1860.6
12.5°	1846.4	1846.4	1846.4	1847.0	1846.4
15°	1826.7	1826.1	1826.1	1827.4	1826.1
17.5°	1803.7	1803.0	1803.0	1802.4	1801.0
20°	1775.3	1775.3	1774.6	1774.0	1771.9
22.5°	1744.9	1744.2	1742.2	1742.2	1739.5
25°	1709.0	1707.0	1705.6	1704.9	1702.9
27.5°	1669.8	1667.1	1665.0	1663.7	1661.6
30°	1625.8	1623.1	1621.1	1619.0	1617.7
32.5°	1578.4	1577.1	1573.7	1573.0	1570.3
35°	1527.7	1525.7	1523.6	1520.9	1518.2
37.5°	1473.6	1471.5	1466.8	1465.4	1463.4
40°	1416.1	1413.3	1407.3	1407.3	1405.2
42.5°	1354.5	1351.8	1347.7	1345.0	1343.7
45°	1290.2	1287.5	1282.8	1280.1	1278.7
47.5°	1221.9	1219.8	1214.4	1212.4	1210.4
50°	1150.8	1148.1	1142.0	1140.7	1138.7
52.5°	1076.4	1075.1	1066.9	1066.3	1064.2
55°	1002.7	995.2	988.5	988.5	987.1
57.5°	921.5	916.1	907.3	907.3	905.9
60°	837.6	832.9	822.7	824.1	822.7
62.5°	755.7	745.6	736.1	740.2	736.8
65°	662.4	656.9	646.8	649.5	648.8
67.5°	577.1	567.0	557.5	562.9	560.2
70°	482.4	477.0	467.5	472.9	466.2
72.5°	393.1	388.3	378.9	385.0	378.2
75°	306.5	301.7	294.3	299.7	293.0
77.5°	224.6	221.2	214.5	219.9	221.2
80°	150.2	146.1	142.8	147.5	148.8
82.5°	88.0	85.2	83.9	84.6	88.0
85°	42.6	39.2	39.2	39.9	39.9
87.5°	11.5	10.1	11.5	12.2	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)