

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: P975084

Luminaire Tested: FLR2-24-72HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975084
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-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

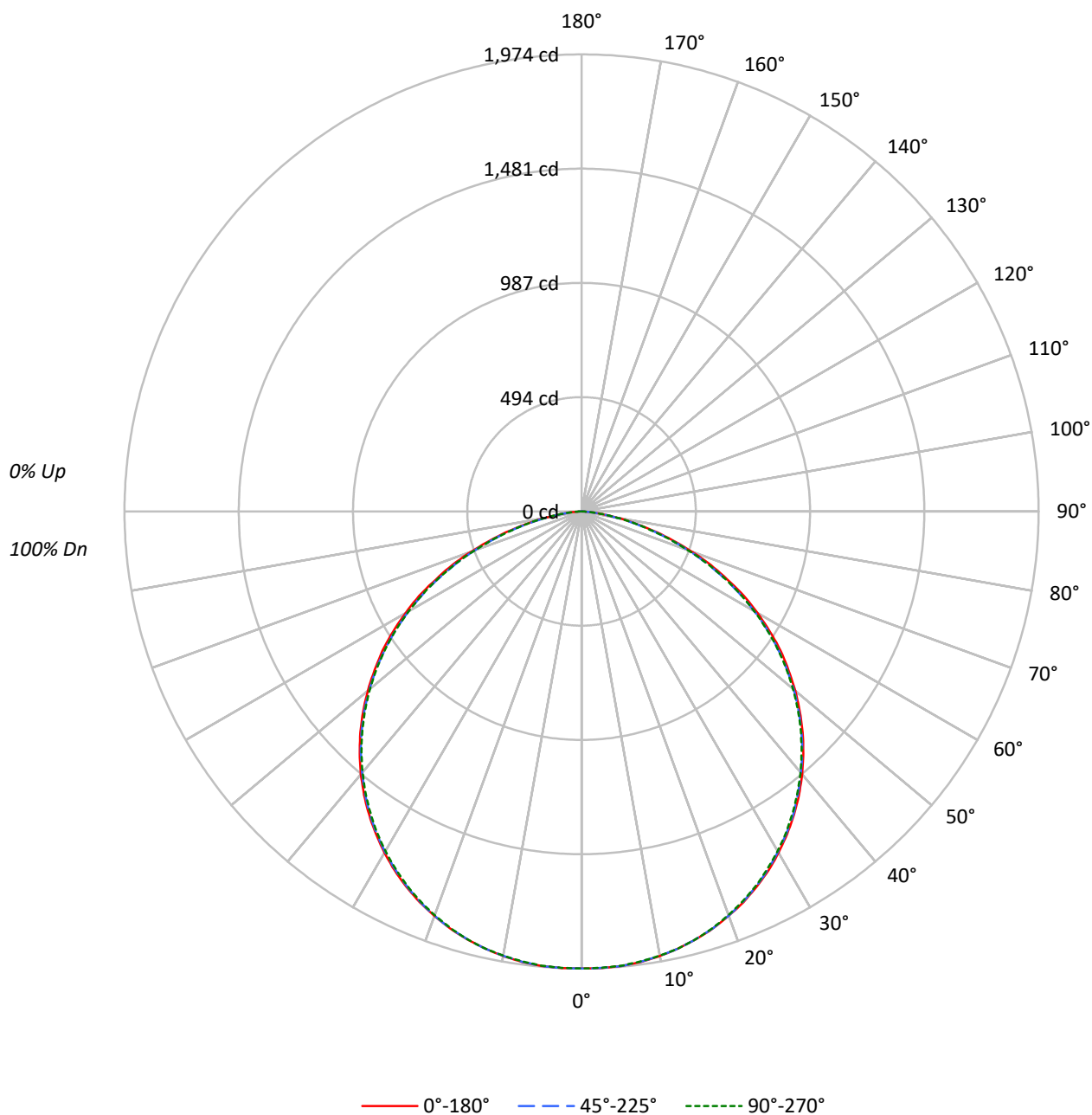
Lumens per Lamp: N/A
Luminaire Lumens: 5580.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P975084

CATALOG NUMBER: FLR2-24-72HE-L950-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°	2656	2656	2656
5°	2662	2662	2660
10°	2663	2663	2662
15°	2664	2663	2663
20°	2662	2661	2656
25°	2657	2651	2647
30°	2645	2637	2632
35°	2627	2620	2611
40°	2604	2588	2584
45°	2571	2556	2548
50°	2522	2503	2496
55°	2463	2428	2425
60°	2360	2318	2318
65°	2208	2156	2163
70°	1987	1926	1920
75°	1668	1602	1594
80°	1219	1158	1207
85°	689	634	645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2571 cd/sqm

TEST NUMBER: P975084

CATALOG NUMBER: FLR2-24-72HE-L950-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	3.4
10°-20°	539.9	9.7
20°-30°	823.1	14.8
30°-40°	997.3	17.9
40°-50°	1035.9	18.6
50°-60°	926.7	16.6
60°-70°	675.4	12.1
70°-80°	334.5	6.0
80°-90°	59.8	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°	1550.4	27.8
0°-40°	2547.7	45.7
0°-60°	4510.4	80.8
0°-90°	5580.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5580.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1971	1972	1971	1971	1969	187
15°	1913	1912	1912	1913	1912	540
25°	1789	1787	1786	1785	1783	825
35°	1600	1598	1595	1592	1590	1000
45°	1351	1348	1343	1340	1339	1041
55°	1050	1042	1035	1035	1034	935
65°	694	688	677	680	679	688
75°	321	316	308	314	307	342
85°	45	41	41	42	42	62
90°	0	0	0	0	0	

TEST NUMBER: P975084

CATALOG NUMBER: FLR2-24-72HE-L950-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1974.3	1974.3	1974.3	1974.3	1974.3
2.5°	1974.3	1973.6	1973.6	1974.3	1972.9
5°	1970.8	1971.5	1970.8	1970.8	1969.4
7.5°	1963.0	1962.3	1961.6	1962.3	1960.2
10°	1949.5	1949.5	1948.8	1949.5	1948.1
12.5°	1933.2	1933.2	1933.2	1933.9	1933.2
15°	1912.7	1912.0	1912.0	1913.4	1912.0
17.5°	1888.6	1887.9	1887.9	1887.2	1885.8
20°	1858.9	1858.9	1858.1	1857.4	1855.3
22.5°	1827.0	1826.3	1824.1	1824.1	1821.3
25°	1789.4	1787.3	1785.9	1785.2	1783.1
27.5°	1748.3	1745.5	1743.4	1742.0	1739.8
30°	1702.3	1699.5	1697.3	1695.2	1693.8
32.5°	1652.7	1651.3	1647.8	1647.0	1644.2
35°	1599.6	1597.5	1595.3	1592.5	1589.7
37.5°	1542.9	1540.8	1535.8	1534.4	1532.3
40°	1482.7	1479.9	1473.5	1473.5	1471.4
42.5°	1418.2	1415.4	1411.1	1408.3	1406.9
45°	1350.9	1348.1	1343.1	1340.3	1338.9
47.5°	1279.4	1277.3	1271.6	1269.5	1267.3
50°	1205.0	1202.2	1195.8	1194.4	1192.2
52.5°	1127.1	1125.7	1117.2	1116.4	1114.3
55°	1049.9	1042.1	1035.0	1035.0	1033.6
57.5°	964.8	959.2	950.0	950.0	948.6
60°	877.0	872.0	861.4	862.8	861.4
62.5°	791.3	780.7	770.7	775.0	771.5
65°	693.5	687.9	677.2	680.1	679.4
67.5°	604.3	593.6	583.7	589.4	586.6
70°	505.1	499.4	489.5	495.2	488.1
72.5°	411.6	406.6	396.7	403.1	396.0
75°	320.9	315.9	308.2	313.8	306.7
77.5°	235.2	231.6	224.6	230.2	231.6
80°	157.3	153.0	149.5	154.4	155.8
82.5°	92.1	89.3	87.8	88.6	92.1
85°	44.6	41.1	41.1	41.8	41.8
87.5°	12.0	10.6	12.0	12.8	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)