

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: P974488

Luminaire Tested: FLR2-24-72-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974488
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: FLR2-24-72-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L950-CP375
Ballast/Driver: -

Summary

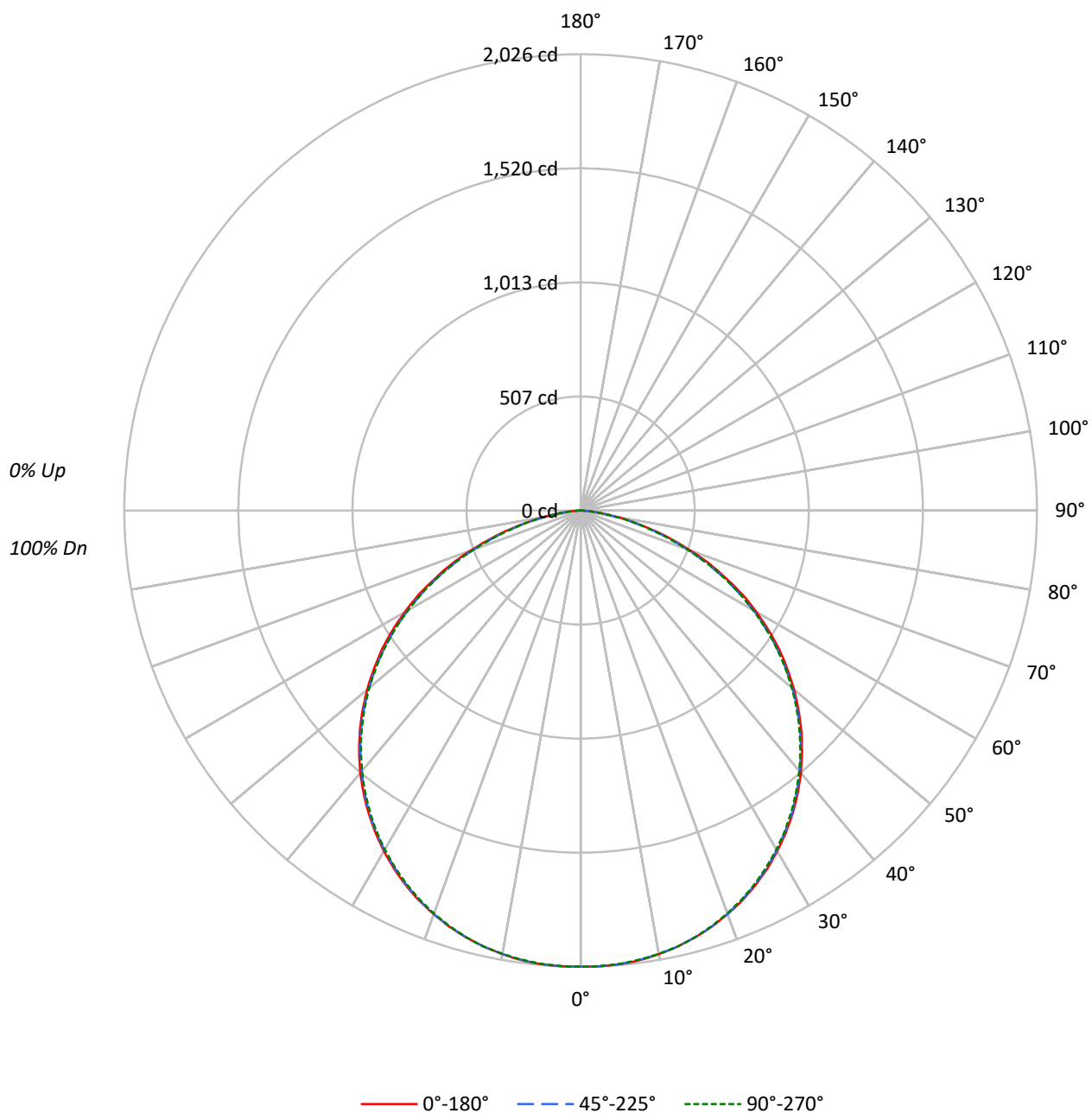
Lumens per Lamp: N/A
Luminaire Lumens: 5726.1 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.9
Input Voltage (V): 120
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: P974488

CATALOG NUMBER: FLR2-24-72-L950-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974488

CATALOG NUMBER: FLR2-24-72-L950-CP375

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°	2726	2726	2726
5°	2731	2731	2729
10°	2733	2732	2731
15°	2734	2733	2733
20°	2731	2730	2726
25°	2726	2721	2716
30°	2714	2706	2700
35°	2696	2689	2679
40°	2672	2656	2652
45°	2638	2623	2614
50°	2588	2569	2561
55°	2527	2491	2488
60°	2422	2379	2379
65°	2266	2213	2219
70°	2039	1976	1971
75°	1712	1644	1637
80°	1251	1189	1239
85°	707	651	662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2638 cd/sqm

TEST NUMBER: P974488

CATALOG NUMBER: FLR2-24-72-L950-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	3.4
10°-20°	554.0	9.7
20°-30°	844.7	14.8
30°-40°	1023.4	17.9
40°-50°	1063.0	18.6
50°-60°	951.0	16.6
60°-70°	693.1	12.1
70°-80°	343.2	6.0
80°-90°	61.4	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°	1591.0	27.8
0°-40°	2614.4	45.7
0°-60°	4628.4	80.8
0°-90°	5726.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5726.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2022	2023	2022	2022	2021	192
15°	1963	1962	1962	1964	1962	554
25°	1836	1834	1833	1832	1830	846
35°	1641	1639	1637	1634	1631	1027
45°	1386	1383	1378	1375	1374	1068
55°	1077	1069	1062	1062	1061	960
65°	712	706	695	698	697	706
75°	329	324	316	322	315	351
85°	46	42	42	43	43	63
90°	0	0	0	0	0	

TEST NUMBER: P974488

CATALOG NUMBER: FLR2-24-72-L950-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2026.0	2026.0	2026.0	2026.0	2026.0
2.5°	2026.0	2025.3	2025.3	2026.0	2024.5
5°	2022.3	2023.1	2022.3	2022.3	2020.9
7.5°	2014.3	2013.6	2012.9	2013.6	2011.4
10°	2000.5	2000.5	1999.8	2000.5	1999.1
12.5°	1983.8	1983.8	1983.8	1984.5	1983.8
15°	1962.7	1962.0	1962.0	1963.5	1962.0
17.5°	1938.0	1937.3	1937.3	1936.6	1935.1
20°	1907.5	1907.5	1906.8	1906.0	1903.9
22.5°	1874.8	1874.0	1871.9	1871.9	1869.0
25°	1836.2	1834.1	1832.6	1831.9	1829.7
27.5°	1794.1	1791.2	1789.0	1787.5	1785.4
30°	1746.8	1743.9	1741.7	1739.6	1738.1
32.5°	1695.9	1694.5	1690.9	1690.1	1687.2
35°	1641.4	1639.2	1637.1	1634.2	1631.3
37.5°	1583.3	1581.1	1576.0	1574.5	1572.4
40°	1521.5	1518.6	1512.0	1512.0	1509.9
42.5°	1455.3	1452.4	1448.1	1445.2	1443.7
45°	1386.3	1383.4	1378.3	1375.4	1373.9
47.5°	1312.9	1310.7	1304.9	1302.7	1300.5
50°	1236.5	1233.6	1227.1	1225.6	1223.4
52.5°	1156.6	1155.1	1146.4	1145.7	1143.5
55°	1077.3	1069.3	1062.1	1062.1	1060.6
57.5°	990.1	984.3	974.8	974.8	973.4
60°	900.0	894.9	884.0	885.4	884.0
62.5°	812.0	801.1	790.9	795.3	791.6
65°	711.7	705.9	695.0	697.9	697.1
67.5°	620.1	609.2	599.0	604.8	601.9
70°	518.3	512.5	502.3	508.1	500.9
72.5°	422.4	417.3	407.1	413.6	406.4
75°	329.3	324.2	316.2	322.0	314.8
77.5°	241.3	237.7	230.4	236.3	237.7
80°	161.4	157.0	153.4	158.5	159.9
82.5°	94.5	91.6	90.1	90.9	94.5
85°	45.8	42.2	42.2	42.9	42.9
87.5°	12.4	10.9	12.4	13.1	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)