

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: P974240

Luminaire Tested: FLR2-24-72-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974240
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-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L935-CP125
Ballast/Driver: -

Summary

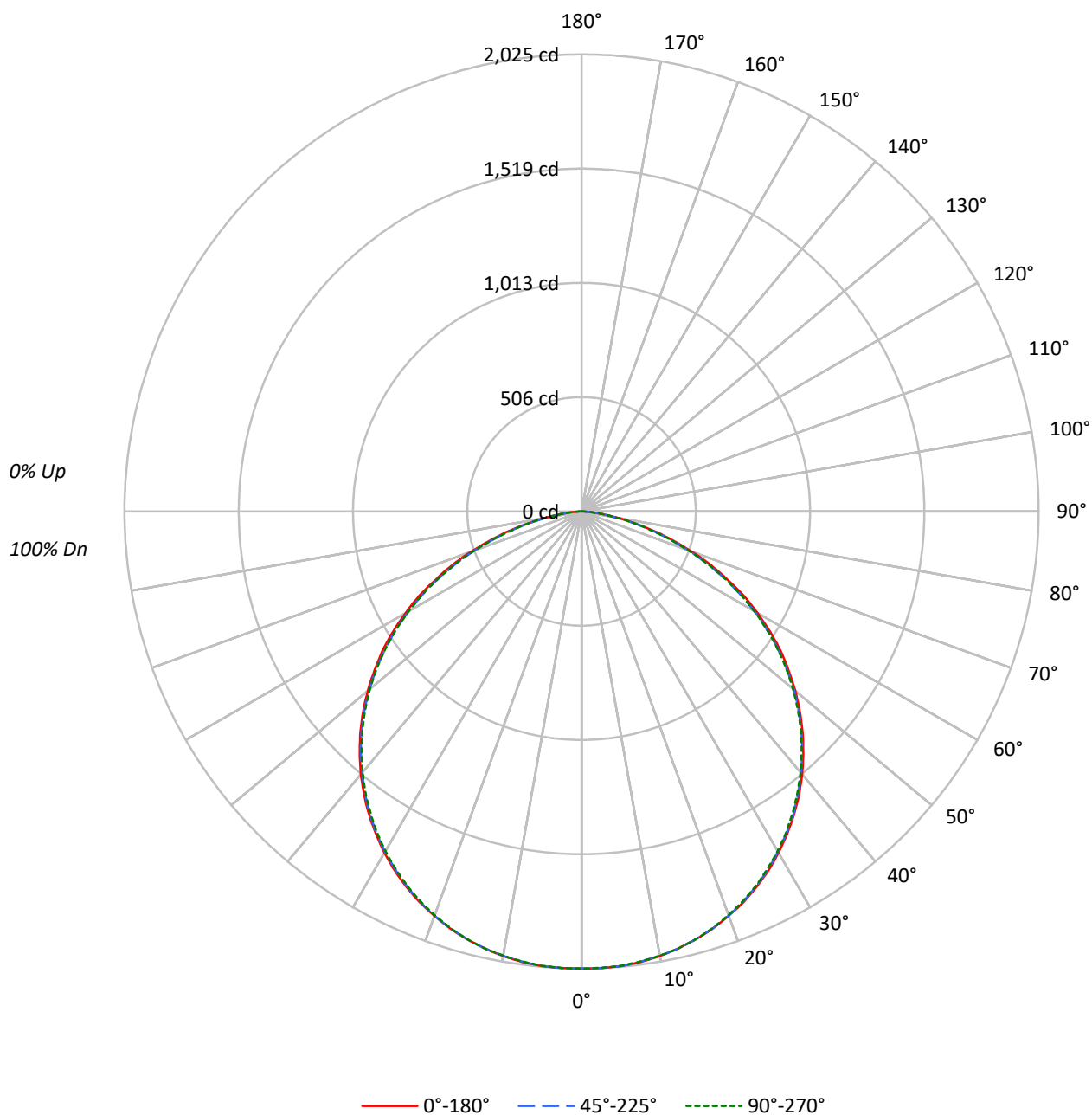
Lumens per Lamp: N/A
Luminaire Lumens: 5724.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2725	2725	2725
5°	2731	2731	2729
10°	2732	2731	2730
15°	2733	2732	2732
20°	2730	2729	2725
25°	2725	2720	2715
30°	2713	2705	2699
35°	2695	2688	2678
40°	2672	2655	2651
45°	2637	2622	2614
50°	2587	2568	2560
55°	2526	2491	2487
60°	2421	2378	2378
65°	2265	2212	2219
70°	2038	1976	1970
75°	1711	1643	1636
80°	1250	1188	1239
85°	707	650	662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2637 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	3.4
10°-20°	553.8	9.7
20°-30°	844.4	14.8
30°-40°	1023.1	17.9
40°-50°	1062.7	18.6
50°-60°	950.7	16.6
60°-70°	692.8	12.1
70°-80°	343.1	6.0
80°-90°	61.3	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°	1590.5	27.8
0°-40°	2613.5	45.7
0°-60°	4626.9	80.8
0°-90°	5724.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5724.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2022	2022	2022	2022	2020	192
15°	1962	1961	1961	1963	1961	554
25°	1836	1834	1832	1831	1829	846
35°	1641	1639	1636	1634	1631	1026
45°	1386	1383	1378	1375	1374	1068
55°	1077	1069	1062	1062	1060	960
65°	711	706	695	698	697	705
75°	329	324	316	322	315	351
85°	46	42	42	43	43	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2025.3	2024.6	2024.6	2025.3	2023.9
5°	2021.7	2022.4	2021.7	2021.7	2020.2
7.5°	2013.7	2013.0	2012.2	2013.0	2010.8
10°	1999.9	1999.9	1999.2	1999.9	1998.4
12.5°	1983.2	1983.2	1983.2	1983.9	1983.2
15°	1962.1	1961.4	1961.4	1962.8	1961.4
17.5°	1937.4	1936.7	1936.7	1935.9	1934.5
20°	1906.9	1906.9	1906.1	1905.4	1903.2
22.5°	1874.2	1873.4	1871.3	1871.3	1868.4
25°	1835.7	1833.5	1832.0	1831.3	1829.1
27.5°	1793.5	1790.6	1788.4	1787.0	1784.8
30°	1746.3	1743.4	1741.2	1739.0	1737.5
32.5°	1695.4	1693.9	1690.3	1689.6	1686.7
35°	1640.9	1638.7	1636.5	1633.6	1630.7
37.5°	1582.8	1580.6	1575.5	1574.0	1571.9
40°	1521.0	1518.1	1511.5	1511.5	1509.4
42.5°	1454.9	1452.0	1447.6	1444.7	1443.2
45°	1385.8	1382.9	1377.8	1374.9	1373.5
47.5°	1312.4	1310.2	1304.4	1302.3	1300.1
50°	1236.1	1233.2	1226.7	1225.2	1223.0
52.5°	1156.2	1154.7	1146.0	1145.3	1143.1
55°	1077.0	1069.0	1061.7	1061.7	1060.3
57.5°	989.8	984.0	974.5	974.5	973.1
60°	899.7	894.6	883.7	885.1	883.7
62.5°	811.7	800.8	790.7	795.0	791.4
65°	711.4	705.6	694.7	697.6	696.9
67.5°	619.9	609.0	598.8	604.6	601.7
70°	518.1	512.3	502.2	508.0	500.7
72.5°	422.2	417.1	407.0	413.5	406.2
75°	329.2	324.1	316.1	321.9	314.7
77.5°	241.3	237.6	230.4	236.2	237.6
80°	161.3	157.0	153.3	158.4	159.9
82.5°	94.5	91.6	90.1	90.8	94.5
85°	45.8	42.1	42.1	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)