

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: P974360

Luminaire Tested: FLR2-24-72-L940-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974360
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-L940-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L940-CP187
Ballast/Driver: -

Summary

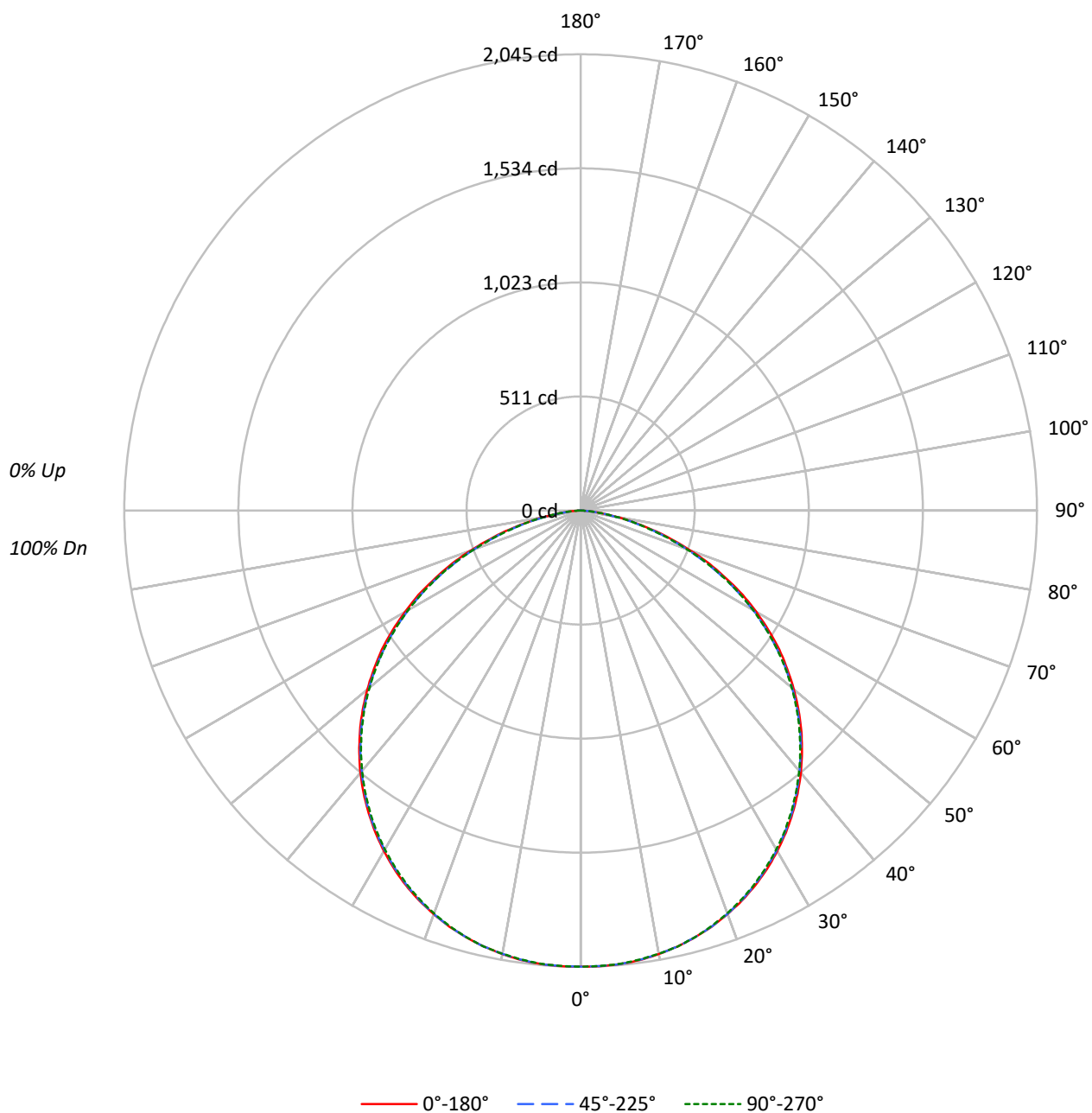
Lumens per Lamp: N/A
Luminaire Lumens: 5778.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2751	2751	2751
5°	2757	2757	2755
10°	2758	2757	2756
15°	2759	2758	2758
20°	2756	2755	2751
25°	2751	2746	2741
30°	2739	2731	2725
35°	2721	2714	2704
40°	2697	2680	2676
45°	2662	2647	2638
50°	2612	2592	2584
55°	2550	2514	2511
60°	2444	2401	2401
65°	2287	2233	2240
70°	2058	1994	1989
75°	1727	1659	1652
80°	1262	1199	1251
85°	713	658	668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2662 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	3.4
10°-20°	559.1	9.7
20°-30°	852.5	14.8
30°-40°	1032.8	17.9
40°-50°	1072.8	18.6
50°-60°	959.7	16.6
60°-70°	699.5	12.1
70°-80°	346.4	6.0
80°-90°	61.9	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°	1605.6	27.8
0°-40°	2638.4	45.7
0°-60°	4671.0	80.8
0°-90°	5778.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2041	2042	2041	2041	2040	194
15°	1981	1980	1980	1982	1980	559
25°	1853	1851	1850	1849	1846	854
35°	1656	1654	1652	1649	1646	1036
45°	1399	1396	1391	1388	1387	1078
55°	1087	1079	1072	1072	1070	969
65°	718	712	701	704	704	712
75°	332	327	319	325	318	354
85°	46	43	43	43	43	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2044.6	2044.6	2044.6	2044.6	2044.6
2.5°	2044.6	2043.9	2043.9	2044.6	2043.2
5°	2041.0	2041.7	2041.0	2041.0	2039.5
7.5°	2032.9	2032.2	2031.4	2032.2	2030.0
10°	2019.0	2019.0	2018.2	2019.0	2017.5
12.5°	2002.1	2002.1	2002.1	2002.8	2002.1
15°	1980.8	1980.1	1980.1	1981.5	1980.1
17.5°	1955.9	1955.1	1955.1	1954.4	1952.9
20°	1925.0	1925.0	1924.3	1923.6	1921.4
22.5°	1892.0	1891.3	1889.1	1889.1	1886.2
25°	1853.2	1850.9	1849.5	1848.7	1846.5
27.5°	1810.6	1807.7	1805.5	1804.0	1801.8
30°	1762.9	1760.0	1757.8	1755.6	1754.1
32.5°	1711.6	1710.1	1706.4	1705.7	1702.8
35°	1656.5	1654.3	1652.1	1649.2	1646.3
37.5°	1597.8	1595.6	1590.5	1589.0	1586.8
40°	1535.5	1532.6	1526.0	1526.0	1523.8
42.5°	1468.7	1465.8	1461.4	1458.5	1457.0
45°	1399.0	1396.1	1391.0	1388.0	1386.6
47.5°	1324.9	1322.7	1316.9	1314.7	1312.5
50°	1247.9	1245.0	1238.4	1236.9	1234.7
52.5°	1167.2	1165.7	1156.9	1156.2	1154.0
55°	1087.2	1079.2	1071.8	1071.8	1070.4
57.5°	999.2	993.3	983.8	983.8	982.3
60°	908.2	903.1	892.1	893.6	892.1
62.5°	819.5	808.5	798.2	802.6	798.9
65°	718.2	712.4	701.4	704.3	703.6
67.5°	625.8	614.8	604.5	610.4	607.4
70°	523.1	517.2	506.9	512.8	505.5
72.5°	426.2	421.1	410.8	417.4	410.1
75°	332.3	327.2	319.1	325.0	317.7
77.5°	243.6	239.9	232.6	238.4	239.9
80°	162.9	158.5	154.8	159.9	161.4
82.5°	95.4	92.4	91.0	91.7	95.4
85°	46.2	42.6	42.6	43.3	43.3
87.5°	12.5	11.0	12.5	13.2	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)