

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: P974765

Luminaire Tested: FLR2-24-72HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974765
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

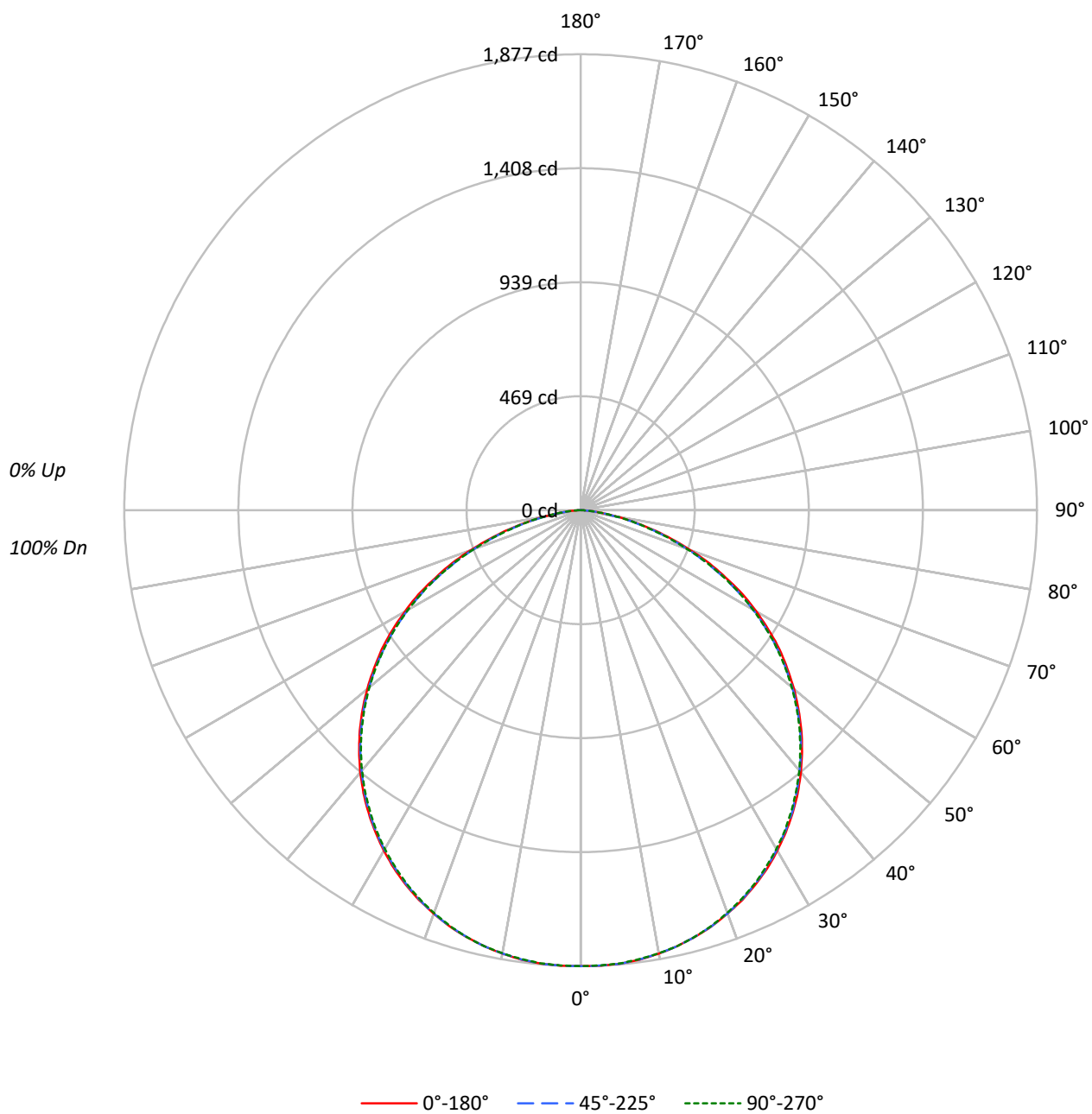
Lumens per Lamp: N/A
Luminaire Lumens: 5305.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	2526	2526	2526
5°	2531	2531	2529
10°	2533	2532	2531
15°	2533	2532	2532
20°	2531	2530	2526
25°	2526	2521	2517
30°	2515	2507	2502
35°	2498	2492	2483
40°	2476	2461	2457
45°	2444	2430	2422
50°	2398	2380	2373
55°	2342	2308	2305
60°	2244	2204	2204
65°	2099	2050	2057
70°	1889	1831	1826
75°	1586	1523	1516
80°	1158	1101	1148
85°	655	604	613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	3.4
10°-20°	513.3	9.7
20°-30°	782.7	14.8
30°-40°	948.3	17.9
40°-50°	985.0	18.6
50°-60°	881.2	16.6
60°-70°	642.2	12.1
70°-80°	318.0	6.0
80°-90°	56.9	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°	1474.2	27.8
0°-40°	2422.5	45.7
0°-60°	4288.7	80.8
0°-90°	5305.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5305.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1874	1875	1874	1874	1873	178
15°	1819	1818	1818	1819	1818	513
25°	1702	1700	1698	1697	1695	784
35°	1521	1519	1517	1514	1512	951
45°	1284	1282	1277	1274	1273	990
55°	998	991	984	984	983	889
65°	659	654	644	647	646	654
75°	305	300	293	298	292	325
85°	42	39	39	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1877.3	1876.6	1876.6	1877.3	1875.9
5°	1873.9	1874.6	1873.9	1873.9	1872.6
7.5°	1866.5	1865.8	1865.2	1865.8	1863.8
10°	1853.7	1853.7	1853.0	1853.7	1852.4
12.5°	1838.2	1838.2	1838.2	1838.9	1838.2
15°	1818.7	1818.0	1818.0	1819.3	1818.0
17.5°	1795.8	1795.1	1795.1	1794.4	1793.1
20°	1767.5	1767.5	1766.8	1766.1	1764.1
22.5°	1737.2	1736.5	1734.5	1734.5	1731.8
25°	1701.5	1699.5	1698.1	1697.4	1695.4
27.5°	1662.4	1659.7	1657.7	1656.3	1654.3
30°	1618.6	1615.9	1613.9	1611.9	1610.5
32.5°	1571.5	1570.1	1566.8	1566.1	1563.4
35°	1521.0	1518.9	1516.9	1514.2	1511.5
37.5°	1467.1	1465.0	1460.3	1459.0	1457.0
40°	1409.8	1407.1	1401.1	1401.1	1399.0
42.5°	1348.5	1345.8	1341.8	1339.1	1337.7
45°	1284.5	1281.8	1277.1	1274.4	1273.1
47.5°	1216.5	1214.5	1209.1	1207.1	1205.0
50°	1145.8	1143.1	1137.0	1135.7	1133.6
52.5°	1071.7	1070.3	1062.2	1061.6	1059.5
55°	998.3	990.8	984.1	984.1	982.8
57.5°	917.4	912.0	903.3	903.3	901.9
60°	833.9	829.2	819.1	820.4	819.1
62.5°	752.4	742.3	732.9	736.9	733.5
65°	659.4	654.0	643.9	646.6	646.0
67.5°	574.6	564.5	555.0	560.4	557.7
70°	480.3	474.9	465.4	470.8	464.1
72.5°	391.4	386.6	377.2	383.3	376.5
75°	305.1	300.4	293.0	298.4	291.7
77.5°	223.6	220.3	213.5	218.9	220.3
80°	149.5	145.5	142.1	146.8	148.2
82.5°	87.6	84.9	83.5	84.2	87.6
85°	42.4	39.1	39.1	39.7	39.7
87.5°	11.5	10.1	11.5	12.1	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)