

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: P975106

Luminaire Tested: FLR2-24-72HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975106
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

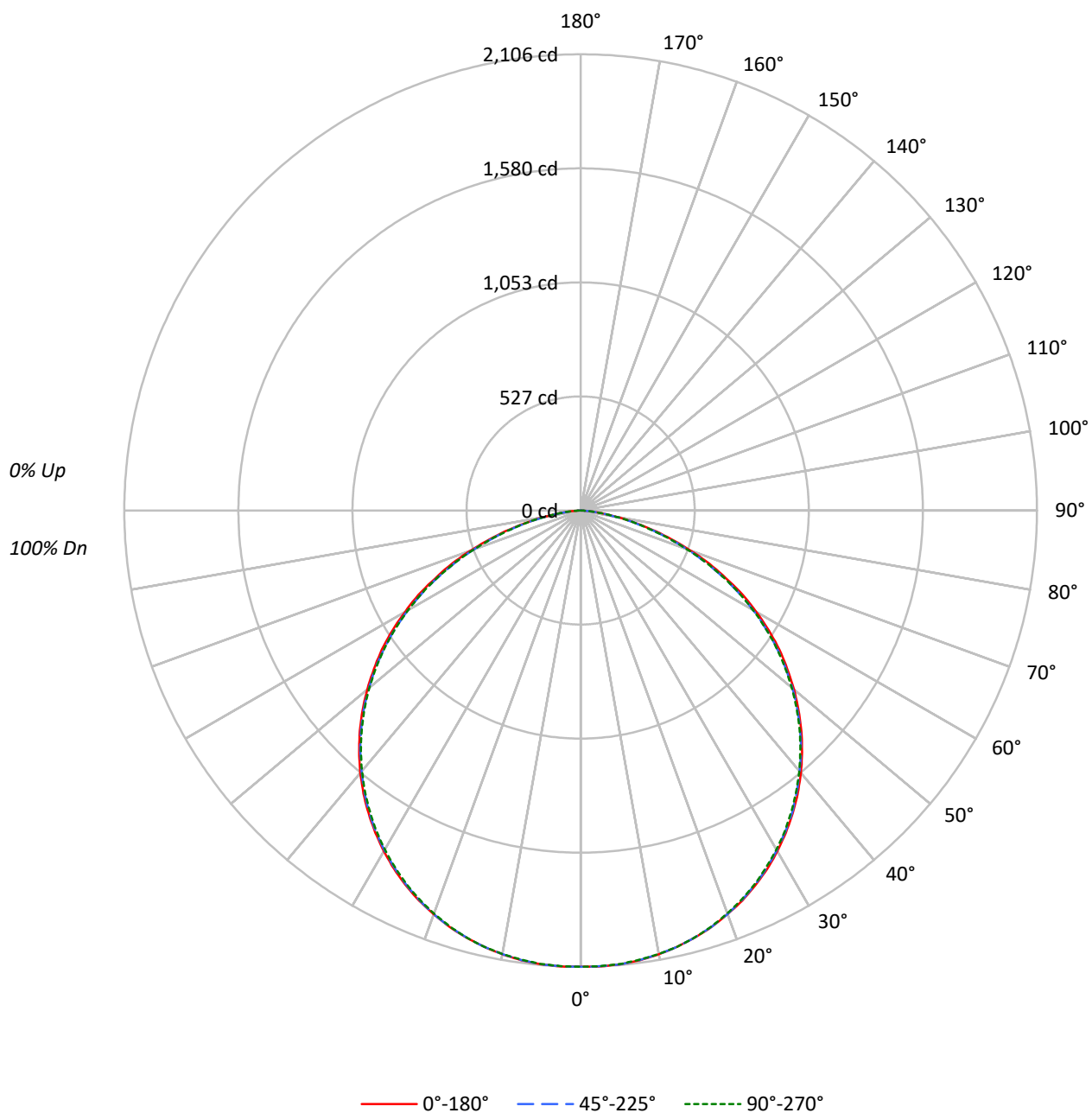
Lumens per Lamp: N/A
Luminaire Lumens: 5953.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2834	2834	2834
5°	2840	2840	2838
10°	2842	2841	2840
15°	2843	2841	2841
20°	2840	2839	2834
25°	2834	2829	2824
30°	2822	2813	2808
35°	2803	2796	2786
40°	2778	2761	2757
45°	2743	2727	2718
50°	2691	2671	2663
55°	2628	2590	2587
60°	2518	2473	2473
65°	2356	2300	2308
70°	2120	2055	2048
75°	1780	1709	1701
80°	1300	1236	1289
85°	735	676	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	3.4
10°-20°	576.0	9.7
20°-30°	878.2	14.8
30°-40°	1064.0	17.9
40°-50°	1105.2	18.6
50°-60°	988.7	16.6
60°-70°	720.6	12.1
70°-80°	356.9	6.0
80°-90°	63.8	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°	1654.2	27.8
0°-40°	2718.2	45.7
0°-60°	4812.2	80.8
0°-90°	5953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5953.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2103	2103	2103	2103	2101	200
15°	2041	2040	2040	2041	2040	576
25°	1909	1907	1905	1905	1902	880
35°	1707	1704	1702	1699	1696	1067
45°	1441	1438	1433	1430	1428	1111
55°	1120	1112	1104	1104	1103	998
65°	740	734	722	726	725	734
75°	342	337	329	335	327	365
85°	48	44	44	45	45	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2106.4	2106.4	2106.4	2106.4	2106.4
2.5°	2106.4	2105.7	2105.7	2106.4	2104.9
5°	2102.6	2103.4	2102.6	2102.6	2101.1
7.5°	2094.3	2093.6	2092.8	2093.6	2091.3
10°	2080.0	2080.0	2079.2	2080.0	2078.5
12.5°	2062.6	2062.6	2062.6	2063.3	2062.6
15°	2040.7	2039.9	2039.9	2041.4	2039.9
17.5°	2015.0	2014.2	2014.2	2013.5	2012.0
20°	1983.2	1983.2	1982.5	1981.7	1979.5
22.5°	1949.2	1948.5	1946.2	1946.2	1943.2
25°	1909.2	1906.9	1905.4	1904.6	1902.4
27.5°	1865.3	1862.3	1860.0	1858.5	1856.3
30°	1816.2	1813.2	1810.9	1808.6	1807.1
32.5°	1763.3	1761.8	1758.0	1757.2	1754.2
35°	1706.6	1704.3	1702.1	1699.0	1696.0
37.5°	1646.1	1643.9	1638.6	1637.1	1634.8
40°	1581.9	1578.9	1572.1	1572.1	1569.8
42.5°	1513.1	1510.1	1505.6	1502.5	1501.0
45°	1441.3	1438.3	1433.0	1430.0	1428.5
47.5°	1365.0	1362.7	1356.7	1354.4	1352.1
50°	1285.6	1282.6	1275.8	1274.3	1272.0
52.5°	1202.5	1201.0	1191.9	1191.1	1188.9
55°	1120.1	1111.8	1104.2	1104.2	1102.7
57.5°	1029.4	1023.4	1013.5	1013.5	1012.0
60°	935.7	930.4	919.1	920.6	919.1
62.5°	844.2	832.9	822.3	826.8	823.1
65°	739.9	733.9	722.5	725.6	724.8
67.5°	644.7	633.4	622.8	628.8	625.8
70°	538.9	532.8	522.3	528.3	520.7
72.5°	439.1	433.8	423.3	430.1	422.5
75°	342.4	337.1	328.8	334.8	327.3
77.5°	250.9	247.1	239.6	245.6	247.1
80°	167.8	163.3	159.5	164.8	166.3
82.5°	98.3	95.2	93.7	94.5	98.3
85°	47.6	43.8	43.8	44.6	44.6
87.5°	12.8	11.3	12.8	13.6	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)