

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: P974809

Luminaire Tested: FLR2-24-72HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974809
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

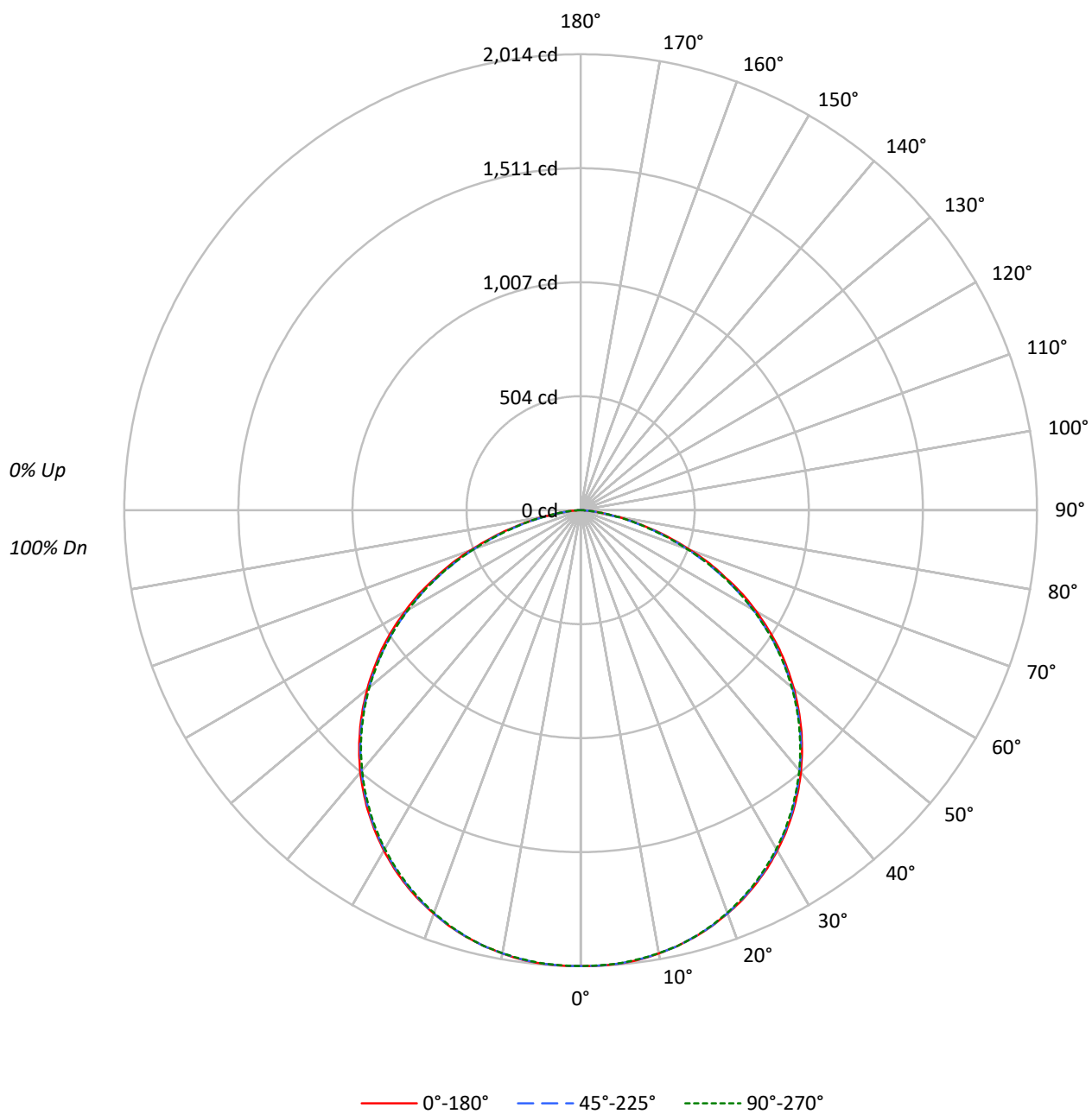
Lumens per Lamp: N/A
Luminaire Lumens: 5691.9 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2710	2710	2710
5°	2715	2715	2713
10°	2717	2716	2715
15°	2718	2717	2717
20°	2715	2714	2710
25°	2710	2704	2700
30°	2698	2690	2684
35°	2680	2673	2663
40°	2656	2640	2636
45°	2622	2607	2599
50°	2573	2553	2546
55°	2512	2476	2473
60°	2407	2365	2365
65°	2252	2199	2206
70°	2027	1964	1959
75°	1701	1634	1627
80°	1243	1182	1232
85°	702	647	658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.4
10°-20°	550.7	9.7
20°-30°	839.6	14.8
30°-40°	1017.3	17.9
40°-50°	1056.7	18.6
50°-60°	945.3	16.6
60°-70°	688.9	12.1
70°-80°	341.2	6.0
80°-90°	61.0	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°	1581.5	27.8
0°-40°	2598.8	45.7
0°-60°	4600.8	80.8
0°-90°	5691.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5691.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2010	2011	2010	2010	2009	191
15°	1951	1950	1950	1952	1950	551
25°	1825	1823	1822	1821	1819	841
35°	1632	1630	1627	1624	1622	1021
45°	1378	1375	1370	1367	1366	1062
55°	1071	1063	1056	1056	1054	954
65°	707	702	691	694	693	701
75°	327	322	314	320	313	349
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°	2013.9	2013.9	2013.9	2013.9	2013.9
2.5°	2013.9	2013.2	2013.2	2013.9	2012.5
5°	2010.3	2011.0	2010.3	2010.3	2008.9
7.5°	2002.4	2001.6	2000.9	2001.6	1999.5
10°	1988.6	1988.6	1987.9	1988.6	1987.2
12.5°	1972.0	1972.0	1972.0	1972.7	1972.0
15°	1951.1	1950.3	1950.3	1951.8	1950.3
17.5°	1926.5	1925.8	1925.8	1925.0	1923.6
20°	1896.1	1896.1	1895.4	1894.7	1892.5
22.5°	1863.6	1862.9	1860.7	1860.7	1857.8
25°	1825.3	1823.2	1821.7	1821.0	1818.8
27.5°	1783.4	1780.5	1778.4	1776.9	1774.7
30°	1736.4	1733.5	1731.4	1729.2	1727.8
32.5°	1685.9	1684.4	1680.8	1680.1	1677.2
35°	1631.7	1629.5	1627.3	1624.4	1621.5
37.5°	1573.9	1571.7	1566.6	1565.2	1563.0
40°	1512.4	1509.5	1503.0	1503.0	1500.9
42.5°	1446.7	1443.8	1439.4	1436.6	1435.1
45°	1378.0	1375.1	1370.1	1367.2	1365.7
47.5°	1305.0	1302.9	1297.1	1294.9	1292.8
50°	1229.2	1226.3	1219.8	1218.3	1216.2
52.5°	1149.7	1148.2	1139.6	1138.8	1136.7
55°	1070.9	1063.0	1055.7	1055.7	1054.3
57.5°	984.2	978.4	969.0	969.0	967.6
60°	894.6	889.5	878.7	880.1	878.7
62.5°	807.2	796.3	786.2	790.5	786.9
65°	707.4	701.7	690.8	693.7	693.0
67.5°	616.4	605.6	595.4	601.2	598.3
70°	515.2	509.4	499.3	505.1	497.9
72.5°	419.8	414.8	404.7	411.2	403.9
75°	327.3	322.3	314.3	320.1	312.9
77.5°	239.9	236.3	229.1	234.8	236.3
80°	160.4	156.1	152.5	157.5	159.0
82.5°	93.9	91.0	89.6	90.3	93.9
85°	45.5	41.9	41.9	42.6	42.6
87.5°	12.3	10.8	12.3	13.0	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)