

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: P974556

Luminaire Tested: FLR2-24-72HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974556
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-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

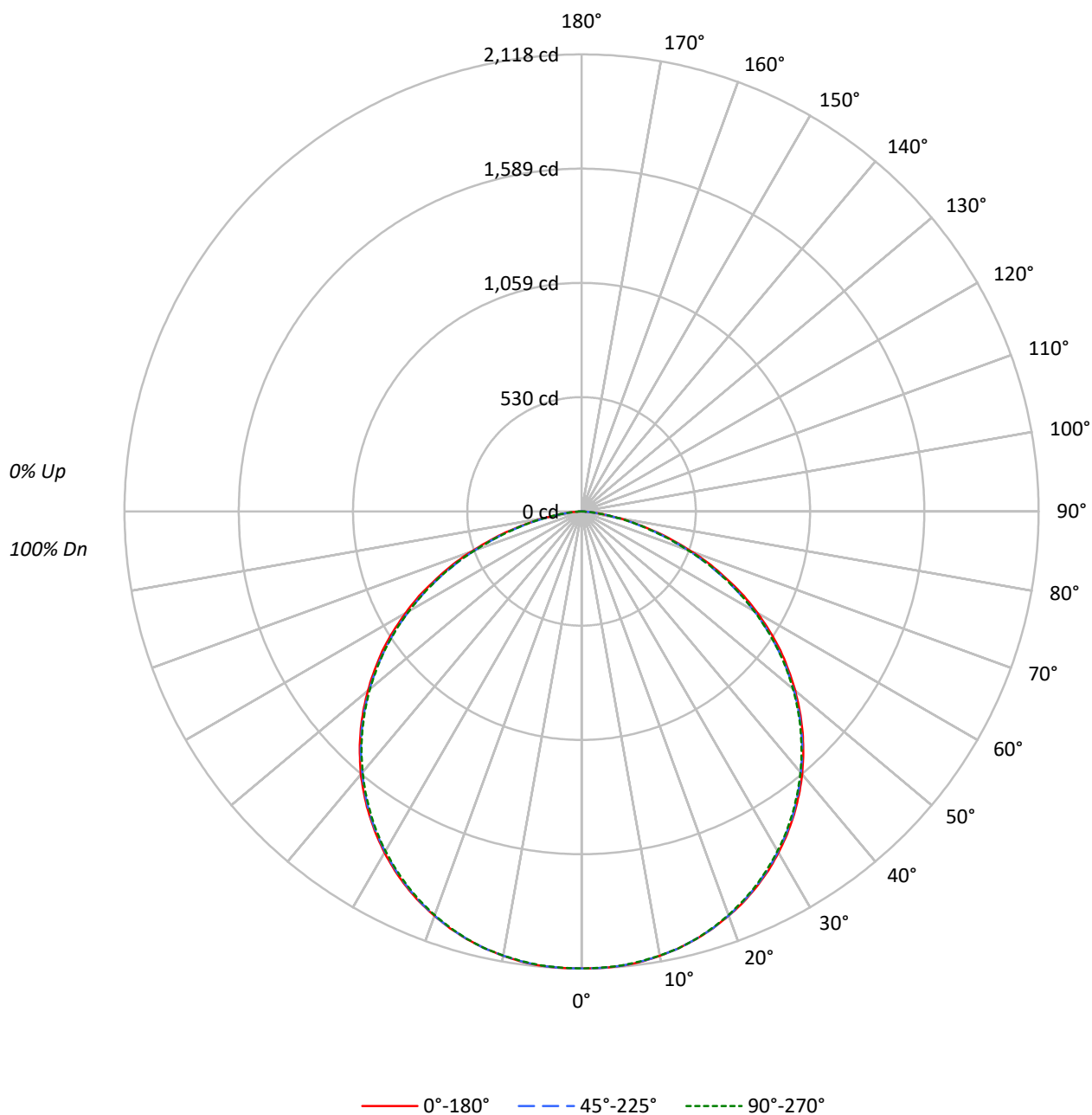
Lumens per Lamp: N/A
Luminaire Lumens: 5985.7 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2849	2849	2849
5°	2855	2855	2853
10°	2857	2856	2855
15°	2858	2857	2857
20°	2855	2854	2850
25°	2850	2844	2840
30°	2837	2829	2823
35°	2818	2811	2801
40°	2794	2776	2772
45°	2757	2742	2733
50°	2706	2685	2677
55°	2642	2604	2601
60°	2532	2486	2486
65°	2368	2313	2320
70°	2131	2066	2060
75°	1789	1719	1710
80°	1307	1242	1296
85°	739	681	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	3.4
10°-20°	579.1	9.7
20°-30°	883.0	14.8
30°-40°	1069.8	17.9
40°-50°	1111.2	18.6
50°-60°	994.1	16.6
60°-70°	724.5	12.1
70°-80°	358.8	6.0
80°-90°	64.1	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°	1663.1	27.8
0°-40°	2732.9	45.7
0°-60°	4838.2	80.8
0°-90°	5985.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5985.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2114	2115	2114	2114	2112	201
15°	2052	2051	2051	2052	2051	579
25°	1920	1917	1916	1915	1913	885
35°	1716	1714	1711	1708	1705	1073
45°	1449	1446	1441	1438	1436	1117
55°	1126	1118	1110	1110	1109	1003
65°	744	738	726	730	729	738
75°	344	339	331	337	329	367
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°	2117.8	2117.8	2117.8	2117.8	2117.8
2.5°	2117.8	2117.1	2117.1	2117.8	2116.3
5°	2114.0	2114.8	2114.0	2114.0	2112.5
7.5°	2105.7	2104.9	2104.2	2104.9	2102.6
10°	2091.2	2091.2	2090.5	2091.2	2089.7
12.5°	2073.8	2073.8	2073.8	2074.5	2073.8
15°	2051.7	2051.0	2051.0	2052.5	2051.0
17.5°	2025.9	2025.1	2025.1	2024.4	2022.9
20°	1994.0	1994.0	1993.2	1992.5	1990.2
22.5°	1959.8	1959.0	1956.7	1956.7	1953.7
25°	1919.5	1917.2	1915.7	1915.0	1912.7
27.5°	1875.4	1872.4	1870.1	1868.6	1866.3
30°	1826.0	1823.0	1820.7	1818.4	1816.9
32.5°	1772.8	1771.3	1767.5	1766.8	1763.7
35°	1715.9	1713.6	1711.3	1708.3	1705.2
37.5°	1655.1	1652.8	1647.5	1645.9	1643.7
40°	1590.5	1587.4	1580.6	1580.6	1578.3
42.5°	1521.3	1518.3	1513.7	1510.7	1509.2
45°	1449.1	1446.1	1440.8	1437.7	1436.2
47.5°	1372.4	1370.1	1364.0	1361.7	1359.5
50°	1292.6	1289.6	1282.7	1281.2	1278.9
52.5°	1209.0	1207.5	1198.4	1197.6	1195.3
55°	1126.2	1117.8	1110.2	1110.2	1108.7
57.5°	1035.0	1028.9	1019.0	1019.0	1017.5
60°	940.8	935.4	924.0	925.6	924.0
62.5°	848.8	837.4	826.8	831.3	827.5
65°	743.9	737.9	726.5	729.5	728.7
67.5°	648.2	636.8	626.2	632.2	629.2
70°	541.8	535.7	525.1	531.2	523.6
72.5°	441.5	436.2	425.5	432.4	424.8
75°	344.2	338.9	330.6	336.6	329.0
77.5°	252.3	248.5	240.9	247.0	248.5
80°	168.7	164.1	160.3	165.7	167.2
82.5°	98.8	95.7	94.2	95.0	98.8
85°	47.9	44.1	44.1	44.8	44.8
87.5°	12.9	11.4	12.9	13.7	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)