

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: P974523

Luminaire Tested: FLR2-24-72HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974523
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

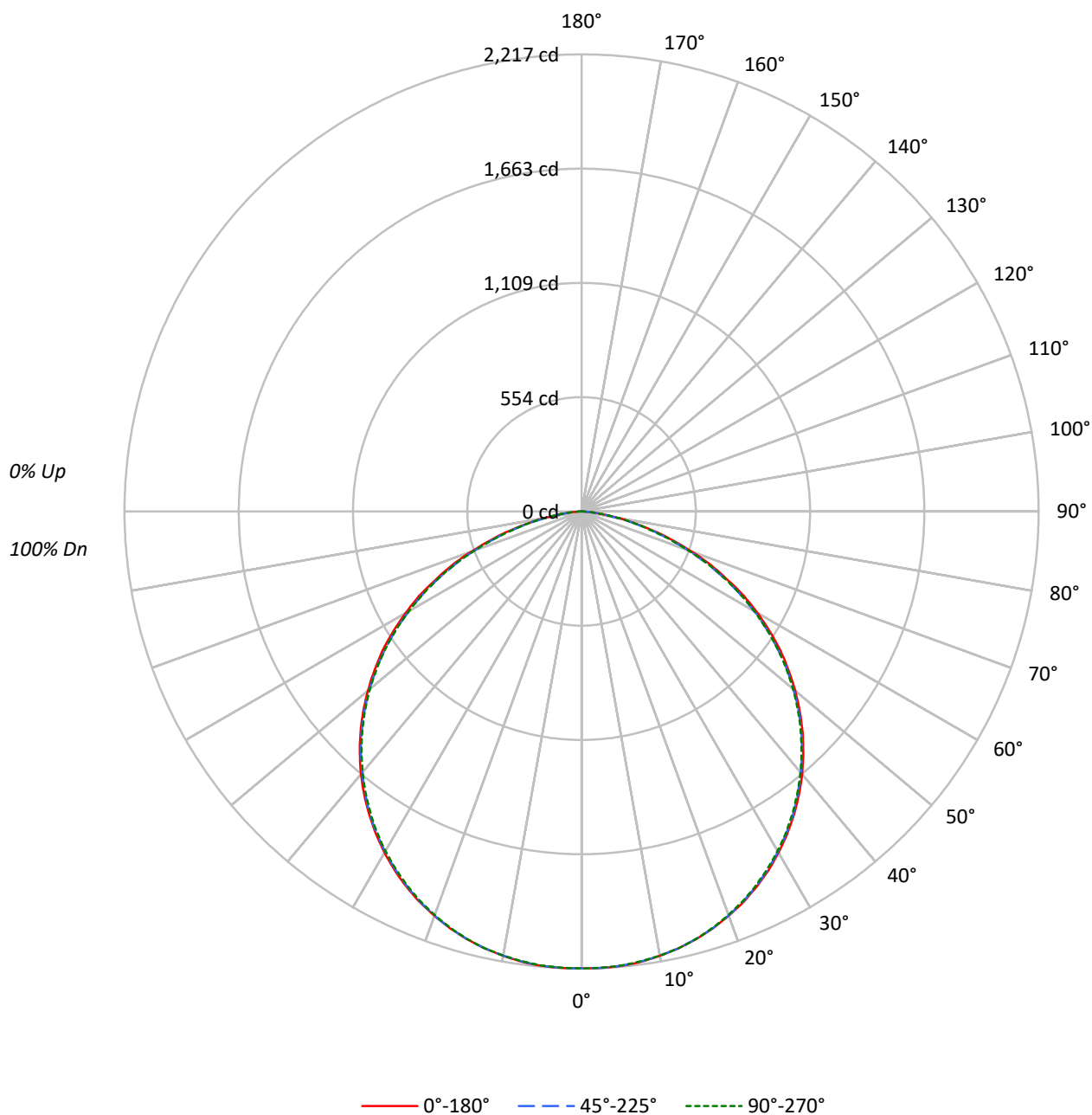
Lumens per Lamp: N/A
Luminaire Lumens: 6265.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2983	2983	2983
5°	2989	2989	2987
10°	2991	2990	2989
15°	2992	2990	2990
20°	2988	2987	2983
25°	2983	2977	2972
30°	2970	2961	2955
35°	2950	2942	2932
40°	2924	2906	2902
45°	2886	2870	2860
50°	2832	2810	2802
55°	2765	2726	2722
60°	2650	2603	2603
65°	2479	2421	2429
70°	2231	2162	2156
75°	1873	1799	1790
80°	1368	1300	1356
85°	773	712	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	3.4
10°-20°	606.2	9.7
20°-30°	924.2	14.8
30°-40°	1119.8	17.9
40°-50°	1163.2	18.6
50°-60°	1040.5	16.6
60°-70°	758.3	12.1
70°-80°	375.6	6.0
80°-90°	67.1	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°	1740.8	27.8
0°-40°	2860.6	45.7
0°-60°	5064.3	80.8
0°-90°	6265.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6265.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2213	2214	2213	2213	2211	210
15°	2148	2147	2147	2148	2147	606
25°	2009	2007	2005	2004	2002	926
35°	1796	1794	1791	1788	1785	1123
45°	1517	1514	1508	1505	1503	1169
55°	1179	1170	1162	1162	1160	1050
65°	779	772	760	764	763	772
75°	360	355	346	352	344	384
85°	50	46	46	47	47	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2216.8	2216.8	2216.8	2216.8	2216.8
2.5°	2216.8	2216.0	2216.0	2216.8	2215.2
5°	2212.8	2213.6	2212.8	2212.8	2211.2
7.5°	2204.1	2203.3	2202.5	2203.3	2200.9
10°	2189.0	2189.0	2188.2	2189.0	2187.4
12.5°	2170.7	2170.7	2170.7	2171.5	2170.7
15°	2147.6	2146.8	2146.8	2148.4	2146.8
17.5°	2120.5	2119.8	2119.8	2119.0	2117.4
20°	2087.1	2087.1	2086.3	2085.5	2083.2
22.5°	2051.3	2050.6	2048.2	2048.2	2045.0
25°	2009.2	2006.8	2005.2	2004.4	2002.0
27.5°	1963.1	1959.9	1957.5	1955.9	1953.5
30°	1911.4	1908.2	1905.8	1903.4	1901.8
32.5°	1855.7	1854.1	1850.1	1849.3	1846.1
35°	1796.0	1793.6	1791.2	1788.1	1784.9
37.5°	1732.4	1730.0	1724.4	1722.8	1720.5
40°	1664.8	1661.6	1654.4	1654.4	1652.1
42.5°	1592.4	1589.2	1584.4	1581.3	1579.7
45°	1516.8	1513.7	1508.1	1504.9	1503.3
47.5°	1436.5	1434.1	1427.7	1425.4	1423.0
50°	1353.0	1349.8	1342.6	1341.1	1338.7
52.5°	1265.5	1263.9	1254.4	1253.6	1251.2
55°	1178.8	1170.0	1162.1	1162.1	1160.5
57.5°	1083.3	1077.0	1066.6	1066.6	1065.0
60°	984.7	979.1	967.2	968.8	967.2
62.5°	888.5	876.5	865.4	870.2	866.2
65°	778.7	772.3	760.4	763.6	762.8
67.5°	678.5	666.5	655.4	661.8	658.6
70°	567.1	560.8	549.6	556.0	548.0
72.5°	462.1	456.6	445.4	452.6	444.6
75°	360.3	354.8	346.0	352.4	344.4
77.5°	264.1	260.1	252.1	258.5	260.1
80°	176.6	171.8	167.8	173.4	175.0
82.5°	103.4	100.2	98.6	99.4	103.4
85°	50.1	46.1	46.1	46.9	46.9
87.5°	13.5	11.9	13.5	14.3	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)