

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: P974512

Luminaire Tested: FLR2-24-72HE-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974512
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-CP080
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source:
Ballast/Driver: -

Summary

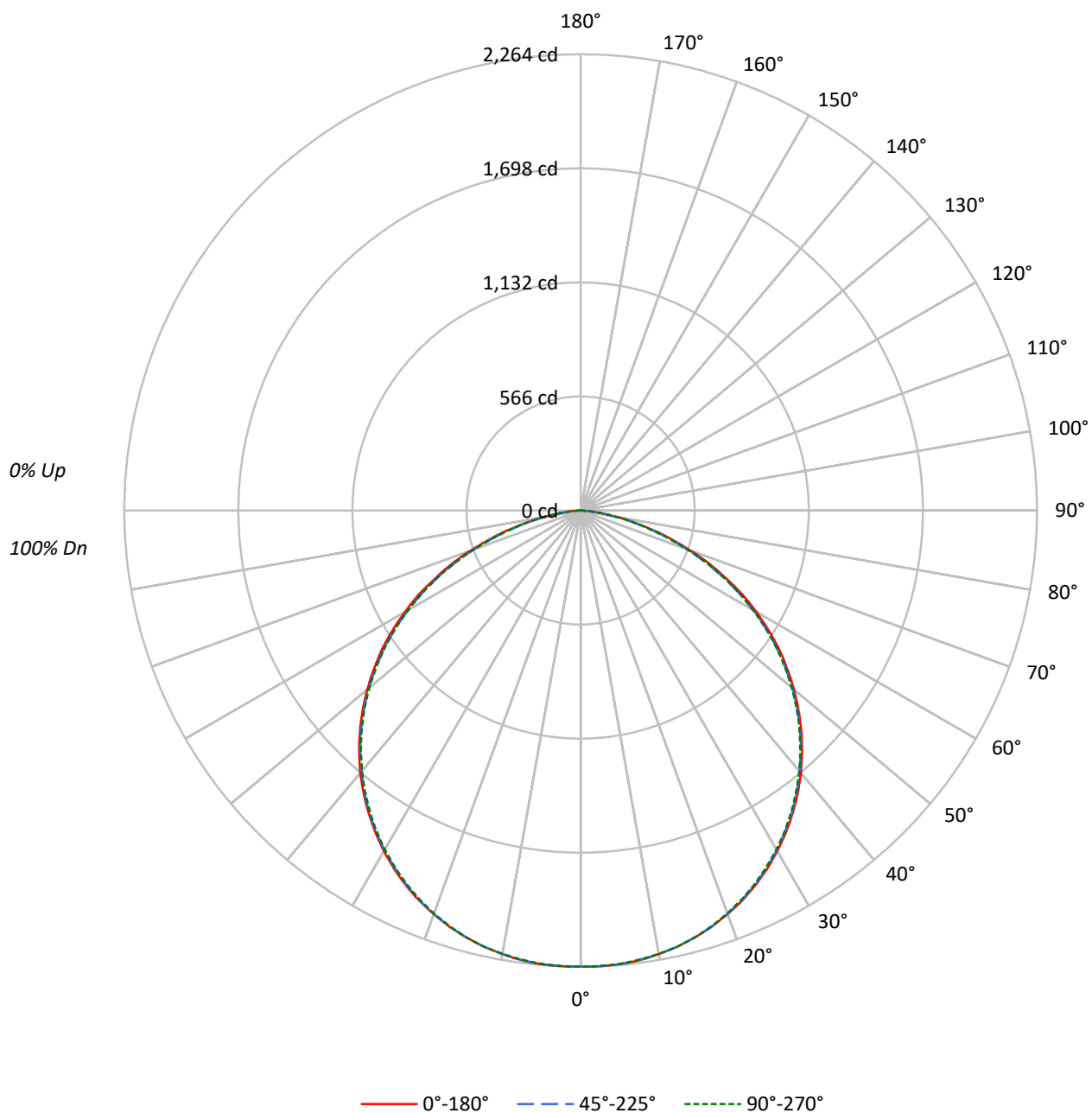
Lumens per Lamp: N/A
Luminaire Lumens: 6398.5 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3046	3046	3046
5°	3052	3052	3050
10°	3054	3053	3052
15°	3055	3054	3054
20°	3052	3051	3046
25°	3046	3040	3035
30°	3033	3024	3017
35°	3013	3005	2994
40°	2986	2968	2963
45°	2948	2931	2921
50°	2892	2870	2862
55°	2824	2784	2780
60°	2706	2658	2658
65°	2532	2472	2480
70°	2279	2208	2202
75°	1913	1837	1828
80°	1397	1328	1385
85°	790	727	739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2948 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	3.4
10°-20°	619.1	9.7
20°-30°	943.9	14.8
30°-40°	1143.6	17.9
40°-50°	1187.9	18.6
50°-60°	1062.7	16.6
60°-70°	774.5	12.1
70°-80°	383.6	6.0
80°-90°	68.6	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°	1777.8	27.8
0°-40°	2921.4	45.7
0°-60°	5171.9	80.8
0°-90°	6398.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6398.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2260	2261	2260	2260	2258	215
15°	2193	2192	2192	2194	2192	619
25°	2052	2050	2048	2047	2045	946
35°	1834	1832	1829	1826	1823	1147
45°	1549	1546	1540	1537	1535	1194
55°	1204	1195	1187	1187	1185	1073
65°	795	789	777	780	779	788
75°	368	362	353	360	352	392
85°	51	47	47	48	48	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.9	2263.9	2263.9	2263.9	2263.9
2.5°	2263.9	2263.1	2263.1	2263.9	2262.3
5°	2259.8	2260.7	2259.8	2259.8	2258.2
7.5°	2250.9	2250.1	2249.3	2250.1	2247.7
10°	2235.5	2235.5	2234.7	2235.5	2233.9
12.5°	2216.8	2216.8	2216.8	2217.6	2216.8
15°	2193.2	2192.4	2192.4	2194.0	2192.4
17.5°	2165.6	2164.8	2164.8	2164.0	2162.4
20°	2131.5	2131.5	2130.7	2129.9	2127.4
22.5°	2094.9	2094.1	2091.7	2091.7	2088.4
25°	2051.9	2049.5	2047.8	2047.0	2044.6
27.5°	2004.8	2001.5	1999.1	1997.5	1995.0
30°	1952.0	1948.7	1946.3	1943.9	1942.2
32.5°	1895.1	1893.5	1889.4	1888.6	1885.4
35°	1834.2	1831.8	1829.3	1826.1	1822.8
37.5°	1769.2	1766.8	1761.1	1759.5	1757.0
40°	1700.2	1696.9	1689.6	1689.6	1687.2
42.5°	1626.2	1623.0	1618.1	1614.9	1613.2
45°	1549.1	1545.8	1540.1	1536.9	1535.3
47.5°	1467.0	1464.6	1458.1	1455.7	1453.2
50°	1381.7	1378.5	1371.2	1369.6	1367.1
52.5°	1292.4	1290.8	1281.0	1280.2	1277.8
55°	1203.8	1194.9	1186.8	1186.8	1185.2
57.5°	1106.4	1099.9	1089.3	1089.3	1087.7
60°	1005.6	1000.0	987.8	989.4	987.8
62.5°	907.3	895.2	883.8	888.7	884.6
65°	795.3	788.8	776.6	779.8	779.0
67.5°	692.9	680.7	669.3	675.8	672.6
70°	579.2	572.7	561.3	567.8	559.7
72.5°	472.0	466.3	454.9	462.2	454.1
75°	368.0	362.3	353.4	359.9	351.7
77.5°	269.7	265.6	257.5	264.0	265.6
80°	180.3	175.5	171.4	177.1	178.7
82.5°	105.6	102.4	100.7	101.5	105.6
85°	51.2	47.1	47.1	47.9	47.9
87.5°	13.8	12.2	13.8	14.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)