

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: P974996

Luminaire Tested: FLR2-24-72HE-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974996
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-L850-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

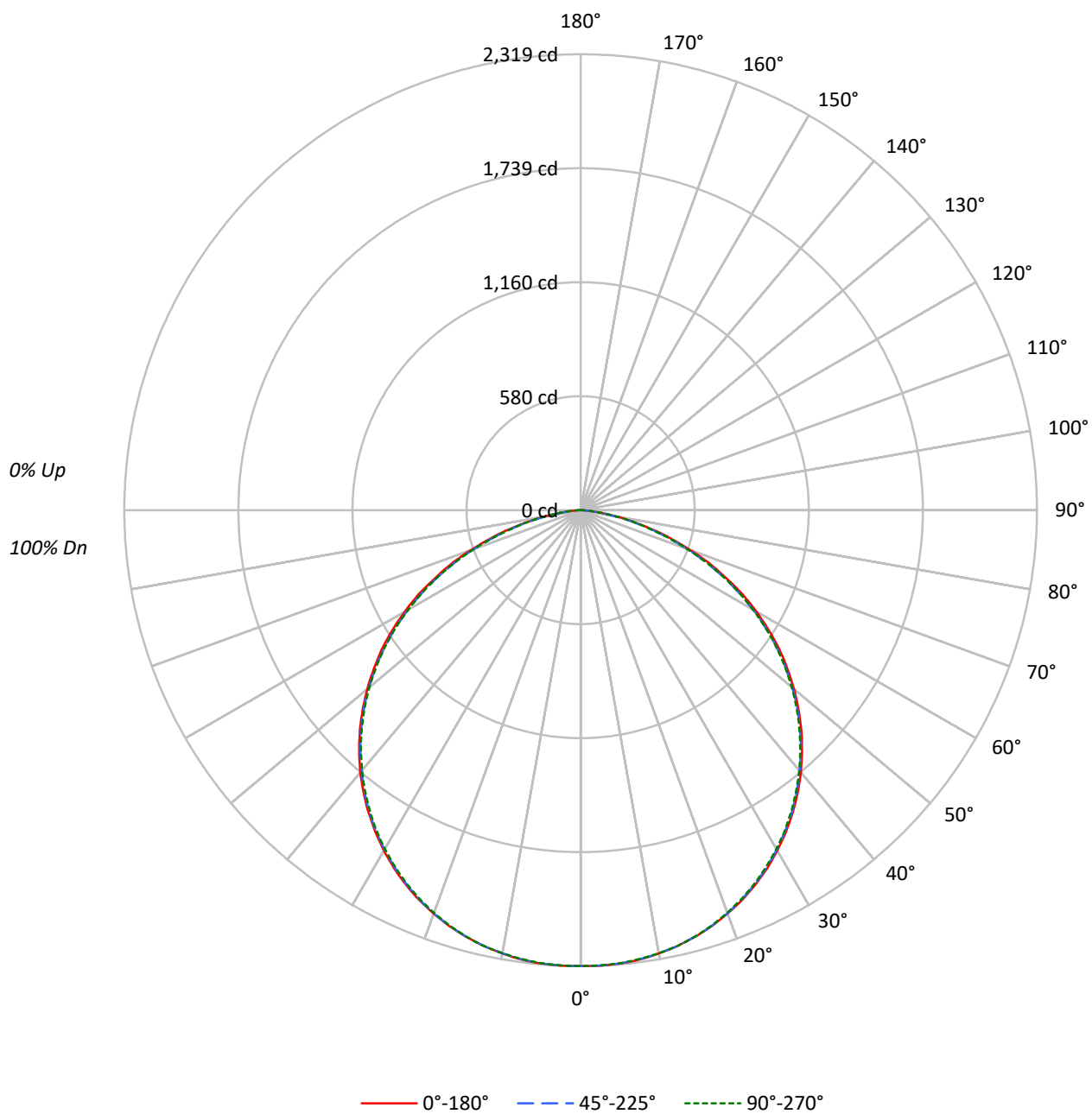
Lumens per Lamp: N/A
Luminaire Lumens: 6554.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3120	3120	3120
5°	3126	3126	3124
10°	3129	3127	3126
15°	3129	3128	3128
20°	3126	3125	3120
25°	3120	3114	3109
30°	3106	3097	3091
35°	3086	3078	3067
40°	3059	3040	3035
45°	3019	3002	2992
50°	2963	2940	2931
55°	2893	2852	2848
60°	2772	2723	2723
65°	2593	2533	2541
70°	2334	2262	2255
75°	1959	1882	1873
80°	1431	1361	1419
85°	809	746	758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.4
10°-20°	634.1	9.7
20°-30°	966.8	14.8
30°-40°	1171.4	17.9
40°-50°	1216.8	18.6
50°-60°	1088.5	16.6
60°-70°	793.3	12.1
70°-80°	392.9	6.0
80°-90°	70.2	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°	1821.1	27.8
0°-40°	2992.5	45.7
0°-60°	5297.8	80.8
0°-90°	6554.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6554.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2319	2319	2319	2319	2319	
5°	2315	2316	2315	2315	2313	220
15°	2247	2246	2246	2247	2246	634
25°	2102	2099	2098	2097	2094	969
35°	1879	1876	1874	1870	1867	1175
45°	1587	1583	1578	1574	1573	1223
55°	1233	1224	1216	1216	1214	1099
65°	815	808	796	799	798	808
75°	377	371	362	369	360	402
85°	52	48	48	49	49	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2319.0	2319.0	2319.0	2319.0	2319.0
2.5°	2319.0	2318.2	2318.2	2319.0	2317.3
5°	2314.8	2315.7	2314.8	2314.8	2313.2
7.5°	2305.7	2304.8	2304.0	2304.8	2302.3
10°	2289.9	2289.9	2289.0	2289.9	2288.2
12.5°	2270.7	2270.7	2270.7	2271.6	2270.7
15°	2246.6	2245.8	2245.8	2247.4	2245.8
17.5°	2218.3	2217.5	2217.5	2216.6	2215.0
20°	2183.4	2183.4	2182.5	2181.7	2179.2
22.5°	2145.9	2145.1	2142.6	2142.6	2139.3
25°	2101.8	2099.3	2097.7	2096.8	2094.3
27.5°	2053.6	2050.2	2047.7	2046.1	2043.6
30°	1999.5	1996.1	1993.6	1991.2	1989.5
32.5°	1941.2	1939.6	1935.4	1934.6	1931.2
35°	1878.8	1876.3	1873.8	1870.5	1867.2
37.5°	1812.3	1809.8	1803.9	1802.3	1799.8
40°	1741.5	1738.2	1730.7	1730.7	1728.2
42.5°	1665.8	1662.5	1657.5	1654.2	1652.5
45°	1586.8	1583.4	1577.6	1574.3	1572.6
47.5°	1502.7	1500.2	1493.6	1491.1	1488.6
50°	1415.4	1412.0	1404.5	1402.9	1400.4
52.5°	1323.8	1322.2	1312.2	1311.3	1308.9
55°	1233.1	1224.0	1215.7	1215.7	1214.0
57.5°	1133.3	1126.6	1115.8	1115.8	1114.1
60°	1030.1	1024.3	1011.8	1013.5	1011.8
62.5°	929.4	916.9	905.3	910.3	906.1
65°	814.6	807.9	795.5	798.8	798.0
67.5°	709.8	697.3	685.6	692.3	689.0
70°	593.3	586.6	575.0	581.6	573.3
72.5°	483.4	477.6	466.0	473.4	465.1
75°	376.9	371.1	362.0	368.6	360.3
77.5°	276.2	272.1	263.8	270.4	272.1
80°	184.7	179.7	175.6	181.4	183.1
82.5°	108.2	104.8	103.2	104.0	108.2
85°	52.4	48.3	48.3	49.1	49.1
87.5°	14.1	12.5	14.1	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)