

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: P974974

Luminaire Tested: FLR2-24-72HE-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974974
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

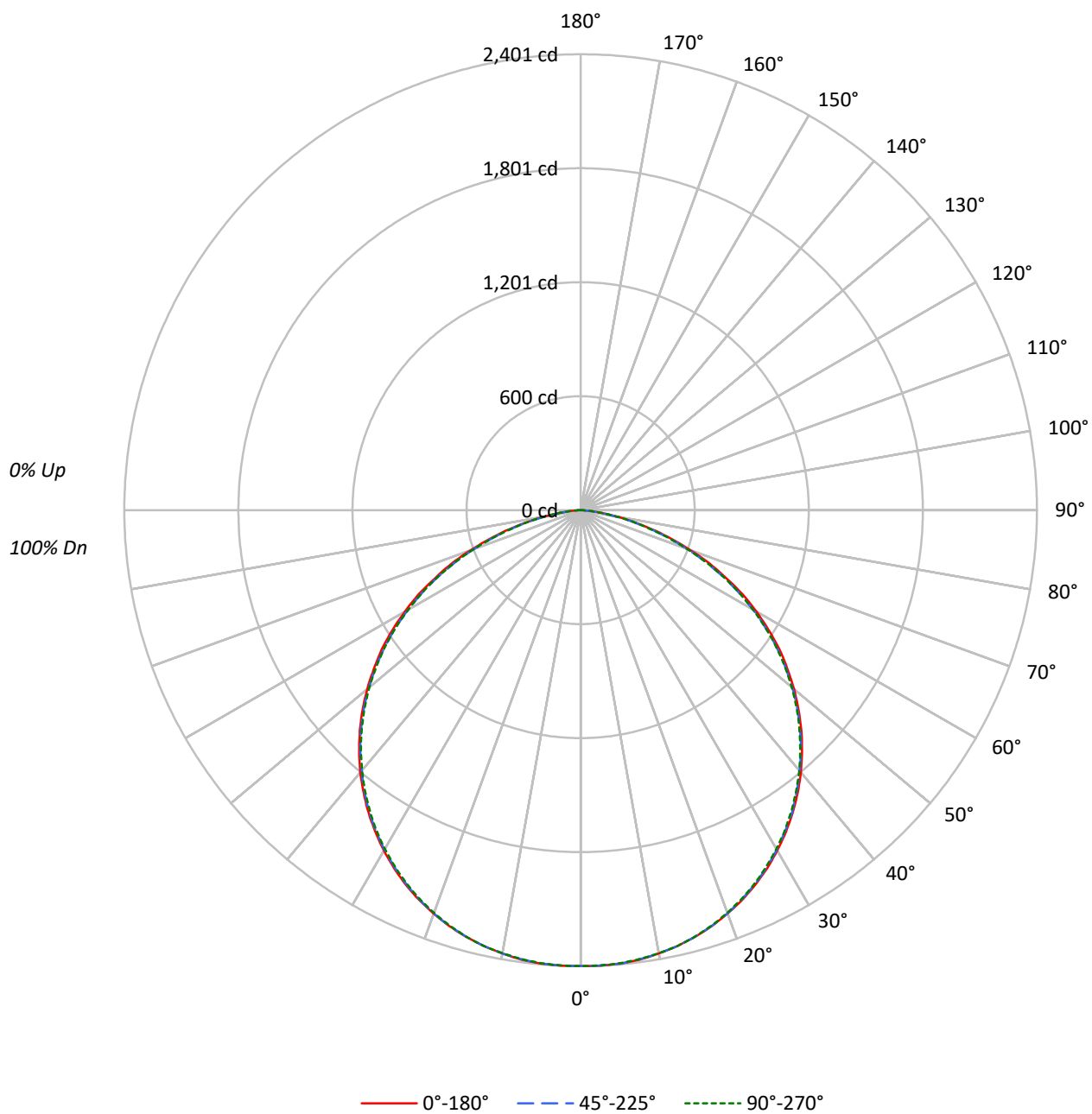
Lumens per Lamp: N/A
Luminaire Lumens: 6786.3 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3231	3231	3231
5°	3237	3237	3235
10°	3239	3238	3237
15°	3240	3239	3239
20°	3237	3236	3231
25°	3231	3224	3219
30°	3216	3207	3200
35°	3195	3187	3176
40°	3167	3147	3143
45°	3126	3108	3098
50°	3068	3044	3035
55°	2995	2953	2949
60°	2870	2819	2819
65°	2685	2622	2630
70°	2417	2342	2335
75°	2029	1948	1939
80°	1482	1409	1468
85°	838	772	784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3126 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	3.4
10°-20°	656.6	9.7
20°-30°	1001.1	14.8
30°-40°	1212.9	17.9
40°-50°	1259.9	18.6
50°-60°	1127.0	16.6
60°-70°	821.4	12.1
70°-80°	406.8	6.0
80°-90°	72.7	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°	1885.6	27.8
0°-40°	3098.5	45.7
0°-60°	5485.4	80.8
0°-90°	6786.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6786.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2401	2401	2401	2401	2401	
5°	2397	2398	2397	2397	2395	228
15°	2326	2325	2325	2327	2325	657
25°	2176	2174	2172	2171	2168	1003
35°	1945	1943	1940	1937	1933	1217
45°	1643	1640	1634	1630	1628	1266
55°	1277	1267	1259	1259	1257	1138
65°	843	837	824	827	826	836
75°	390	384	375	382	373	416
85°	54	50	50	51	51	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2401.1	2401.1	2401.1	2401.1	2401.1
2.5°	2401.1	2400.3	2400.3	2401.1	2399.4
5°	2396.8	2397.7	2396.8	2396.8	2395.1
7.5°	2387.3	2386.5	2385.6	2386.5	2383.9
10°	2371.0	2371.0	2370.1	2371.0	2369.2
12.5°	2351.1	2351.1	2351.1	2352.0	2351.1
15°	2326.2	2325.3	2325.3	2327.0	2325.3
17.5°	2296.9	2296.0	2296.0	2295.1	2293.4
20°	2260.7	2260.7	2259.8	2259.0	2256.4
22.5°	2221.9	2221.1	2218.5	2218.5	2215.0
25°	2176.3	2173.7	2171.9	2171.1	2168.5
27.5°	2126.3	2122.8	2120.3	2118.5	2115.9
30°	2070.3	2066.8	2064.3	2061.7	2059.9
32.5°	2010.0	2008.3	2003.9	2003.1	1999.6
35°	1945.4	1942.8	1940.2	1936.7	1933.3
37.5°	1876.4	1873.8	1867.8	1866.1	1863.5
40°	1803.2	1799.8	1792.0	1792.0	1789.4
42.5°	1724.8	1721.4	1716.2	1712.7	1711.0
45°	1643.0	1639.5	1633.5	1630.0	1628.3
47.5°	1555.9	1553.4	1546.5	1543.9	1541.3
50°	1465.5	1462.0	1454.3	1452.6	1450.0
52.5°	1370.7	1369.0	1358.6	1357.8	1355.2
55°	1276.8	1267.3	1258.7	1258.7	1257.0
57.5°	1173.4	1166.5	1155.3	1155.3	1153.6
60°	1066.6	1060.6	1047.6	1049.4	1047.6
62.5°	962.3	949.4	937.4	942.5	938.2
65°	843.4	836.6	823.6	827.1	826.2
67.5°	734.9	722.0	709.9	716.8	713.4
70°	614.3	607.4	595.3	602.2	593.6
72.5°	500.6	494.5	482.5	490.2	481.6
75°	390.3	384.2	374.8	381.7	373.0
77.5°	286.0	281.7	273.1	280.0	281.7
80°	191.3	186.1	181.8	187.8	189.5
82.5°	112.0	108.6	106.8	107.7	112.0
85°	54.3	50.0	50.0	50.8	50.8
87.5°	14.6	12.9	14.6	15.5	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)