

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: P975052

Luminaire Tested: FLR2-24-80HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975052
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: FLR2-24-80HE-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

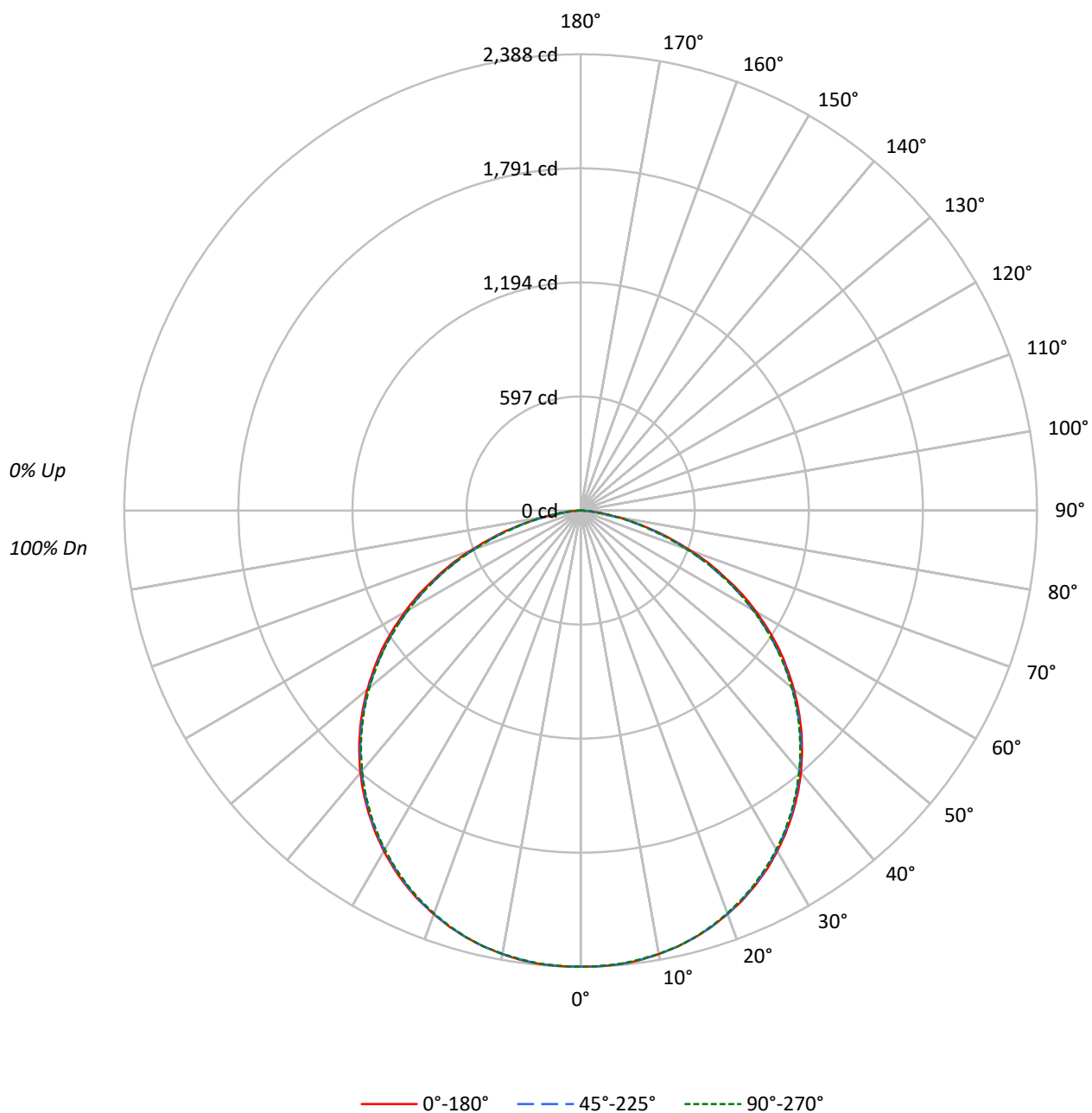
Lumens per Lamp: N/A
Luminaire Lumens: 6748.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3213	3213	3213
5°	3219	3219	3217
10°	3221	3220	3219
15°	3222	3221	3221
20°	3219	3218	3213
25°	3213	3207	3201
30°	3199	3189	3183
35°	3177	3169	3158
40°	3150	3130	3126
45°	3109	3091	3081
50°	3050	3027	3018
55°	2978	2936	2932
60°	2854	2803	2803
65°	2670	2607	2616
70°	2403	2329	2322
75°	2018	1938	1929
80°	1474	1401	1461
85°	834	767	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	3.4
10°-20°	652.9	9.7
20°-30°	995.5	14.8
30°-40°	1206.1	17.9
40°-50°	1252.9	18.6
50°-60°	1120.8	16.6
60°-70°	816.8	12.1
70°-80°	404.5	6.0
80°-90°	72.3	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°	1875.1	27.8
0°-40°	3081.2	45.7
0°-60°	5454.8	80.8
0°-90°	6748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6748.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2388	2388	2388	2388	2388	
5°	2384	2384	2384	2384	2382	227
15°	2313	2312	2312	2314	2312	653
25°	2164	2162	2160	2159	2156	997
35°	1934	1932	1929	1926	1922	1210
45°	1634	1630	1624	1621	1619	1259
55°	1270	1260	1252	1252	1250	1131
65°	839	832	819	822	822	832
75°	388	382	373	380	371	414
85°	54	50	50	50	50	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2387.8	2387.8	2387.8	2387.8	2387.8
2.5°	2387.8	2386.9	2386.9	2387.8	2386.0
5°	2383.5	2384.3	2383.5	2383.5	2381.8
7.5°	2374.0	2373.2	2372.3	2373.2	2370.6
10°	2357.8	2357.8	2356.9	2357.8	2356.1
12.5°	2338.1	2338.1	2338.1	2338.9	2338.1
15°	2313.2	2312.4	2312.4	2314.1	2312.4
17.5°	2284.1	2283.2	2283.2	2282.4	2280.7
20°	2248.1	2248.1	2247.2	2246.4	2243.8
22.5°	2209.5	2208.7	2206.1	2206.1	2202.7
25°	2164.1	2161.6	2159.9	2159.0	2156.4
27.5°	2114.4	2111.0	2108.5	2106.7	2104.2
30°	2058.8	2055.3	2052.8	2050.2	2048.5
32.5°	1998.8	1997.1	1992.8	1991.9	1988.5
35°	1934.5	1932.0	1929.4	1926.0	1922.5
37.5°	1866.0	1863.4	1857.4	1855.7	1853.1
40°	1793.2	1789.7	1782.0	1782.0	1779.5
42.5°	1715.2	1711.8	1706.6	1703.2	1701.5
45°	1633.8	1630.4	1624.4	1621.0	1619.2
47.5°	1547.3	1544.7	1537.9	1535.3	1532.7
50°	1457.3	1453.9	1446.2	1444.5	1441.9
52.5°	1363.1	1361.4	1351.1	1350.2	1347.7
55°	1269.7	1260.3	1251.7	1251.7	1250.0
57.5°	1166.9	1160.0	1148.9	1148.9	1147.2
60°	1060.7	1054.7	1041.8	1043.5	1041.8
62.5°	957.0	944.1	932.1	937.3	933.0
65°	838.8	831.9	819.0	822.5	821.6
67.5°	730.8	718.0	706.0	712.8	709.4
70°	610.9	604.0	592.0	598.9	590.3
72.5°	497.8	491.8	479.8	487.5	478.9
75°	388.1	382.1	372.7	379.5	371.0
77.5°	284.4	280.2	271.6	278.4	280.2
80°	190.2	185.1	180.8	186.8	188.5
82.5°	111.4	107.9	106.2	107.1	111.4
85°	54.0	49.7	49.7	50.5	50.5
87.5°	14.6	12.9	14.6	15.4	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)