

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: P974755

Luminaire Tested: FLR2-24-80HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974755
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-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

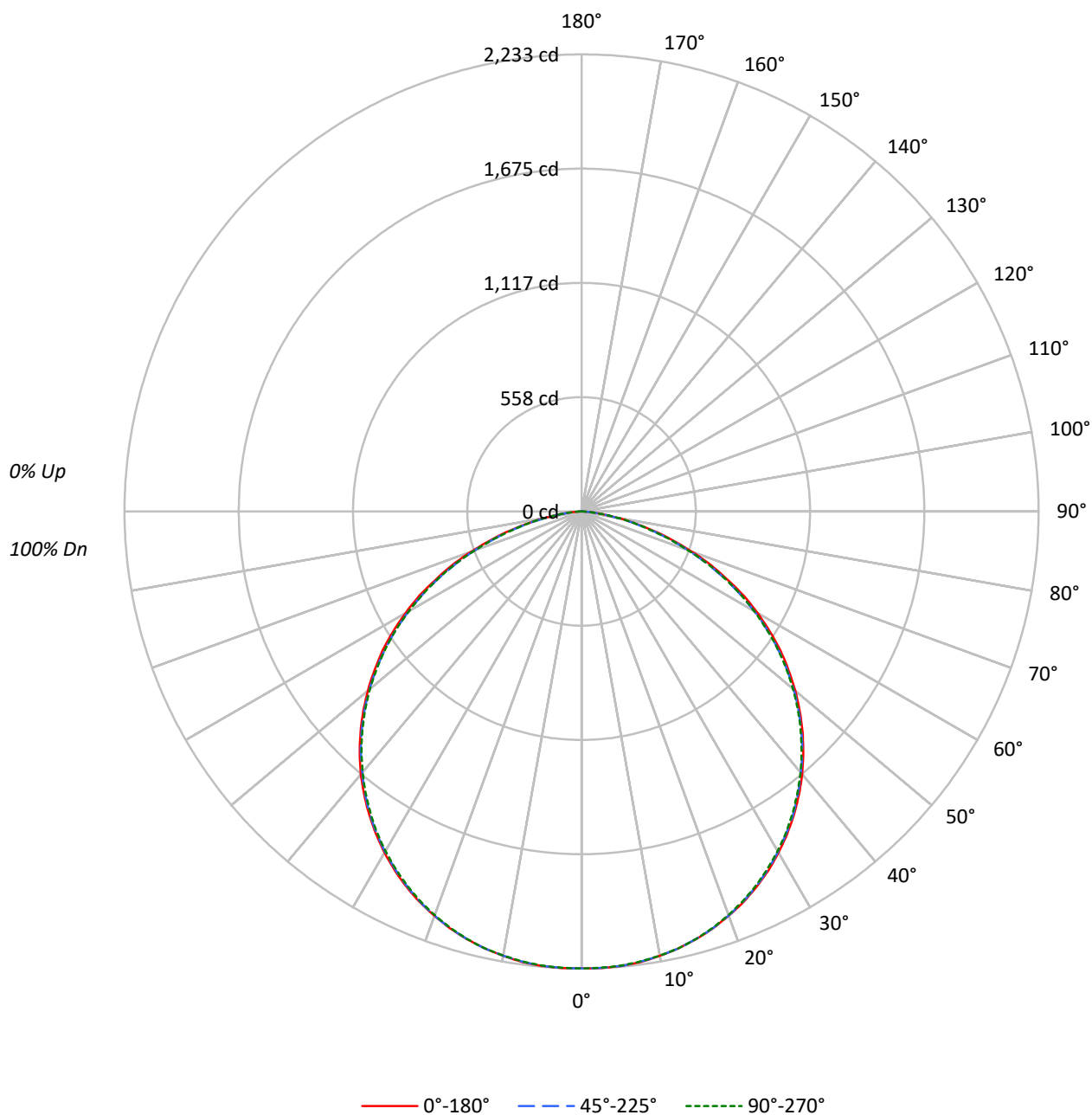
Lumens per Lamp: N/A
Luminaire Lumens: 6311.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3004	3004	3004
5°	3011	3011	3008
10°	3012	3011	3010
15°	3013	3012	3012
20°	3010	3009	3005
25°	3005	2999	2994
30°	2991	2983	2976
35°	2972	2964	2953
40°	2945	2927	2923
45°	2907	2891	2881
50°	2853	2831	2822
55°	2785	2746	2742
60°	2669	2622	2622
65°	2497	2439	2446
70°	2247	2178	2172
75°	1887	1812	1803
80°	1378	1310	1366
85°	780	718	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	3.4
10°-20°	610.6	9.7
20°-30°	931.0	14.8
30°-40°	1127.9	17.9
40°-50°	1171.6	18.6
50°-60°	1048.1	16.6
60°-70°	763.9	12.1
70°-80°	378.3	6.0
80°-90°	67.6	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°	1753.5	27.8
0°-40°	2881.5	45.7
0°-60°	5101.2	80.8
0°-90°	6311.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6311.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2233	2233	2233	2233	2233	
5°	2229	2230	2229	2229	2227	212
15°	2163	2162	2162	2164	2162	611
25°	2024	2022	2020	2019	2017	933
35°	1809	1807	1804	1801	1798	1132
45°	1528	1525	1519	1516	1514	1177
55°	1187	1179	1171	1171	1169	1058
65°	784	778	766	769	768	778
75°	363	357	348	355	347	387
85°	50	46	46	47	47	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.0	2233.0	2233.0	2233.0	2233.0
2.5°	2233.0	2232.2	2232.2	2233.0	2231.4
5°	2229.0	2229.8	2229.0	2229.0	2227.4
7.5°	2220.2	2219.4	2218.6	2219.4	2217.0
10°	2204.9	2204.9	2204.1	2204.9	2203.3
12.5°	2186.5	2186.5	2186.5	2187.3	2186.5
15°	2163.3	2162.5	2162.5	2164.1	2162.5
17.5°	2136.0	2135.2	2135.2	2134.4	2132.8
20°	2102.4	2102.4	2101.6	2100.8	2098.4
22.5°	2066.3	2065.5	2063.1	2063.1	2059.9
25°	2023.9	2021.5	2019.9	2019.1	2016.6
27.5°	1977.4	1974.2	1971.8	1970.2	1967.8
30°	1925.3	1922.1	1919.7	1917.3	1915.7
32.5°	1869.2	1867.6	1863.6	1862.8	1859.6
35°	1809.1	1806.7	1804.3	1801.1	1797.9
37.5°	1745.0	1742.6	1737.0	1735.4	1733.0
40°	1676.9	1673.7	1666.5	1666.5	1664.1
42.5°	1604.0	1600.8	1596.0	1592.8	1591.2
45°	1527.9	1524.7	1519.1	1515.9	1514.3
47.5°	1447.0	1444.6	1438.2	1435.8	1433.4
50°	1362.9	1359.7	1352.4	1350.8	1348.4
52.5°	1274.7	1273.1	1263.5	1262.7	1260.3
55°	1187.4	1178.6	1170.6	1170.6	1169.0
57.5°	1091.2	1084.8	1074.4	1074.4	1072.8
60°	991.9	986.3	974.3	975.9	974.3
62.5°	895.0	882.9	871.7	876.5	872.5
65°	784.4	778.0	766.0	769.2	768.4
67.5°	683.4	671.4	660.2	666.6	663.4
70°	571.3	564.9	553.6	560.0	552.0
72.5°	465.5	459.9	448.7	455.9	447.9
75°	362.9	357.3	348.5	354.9	346.9
77.5°	266.0	262.0	254.0	260.4	262.0
80°	177.9	173.1	169.1	174.7	176.3
82.5°	104.2	101.0	99.4	100.2	104.2
85°	50.5	46.5	46.5	47.3	47.3
87.5°	13.6	12.0	13.6	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)