

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: P974623

Luminaire Tested: FLR2-24-80HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974623
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-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

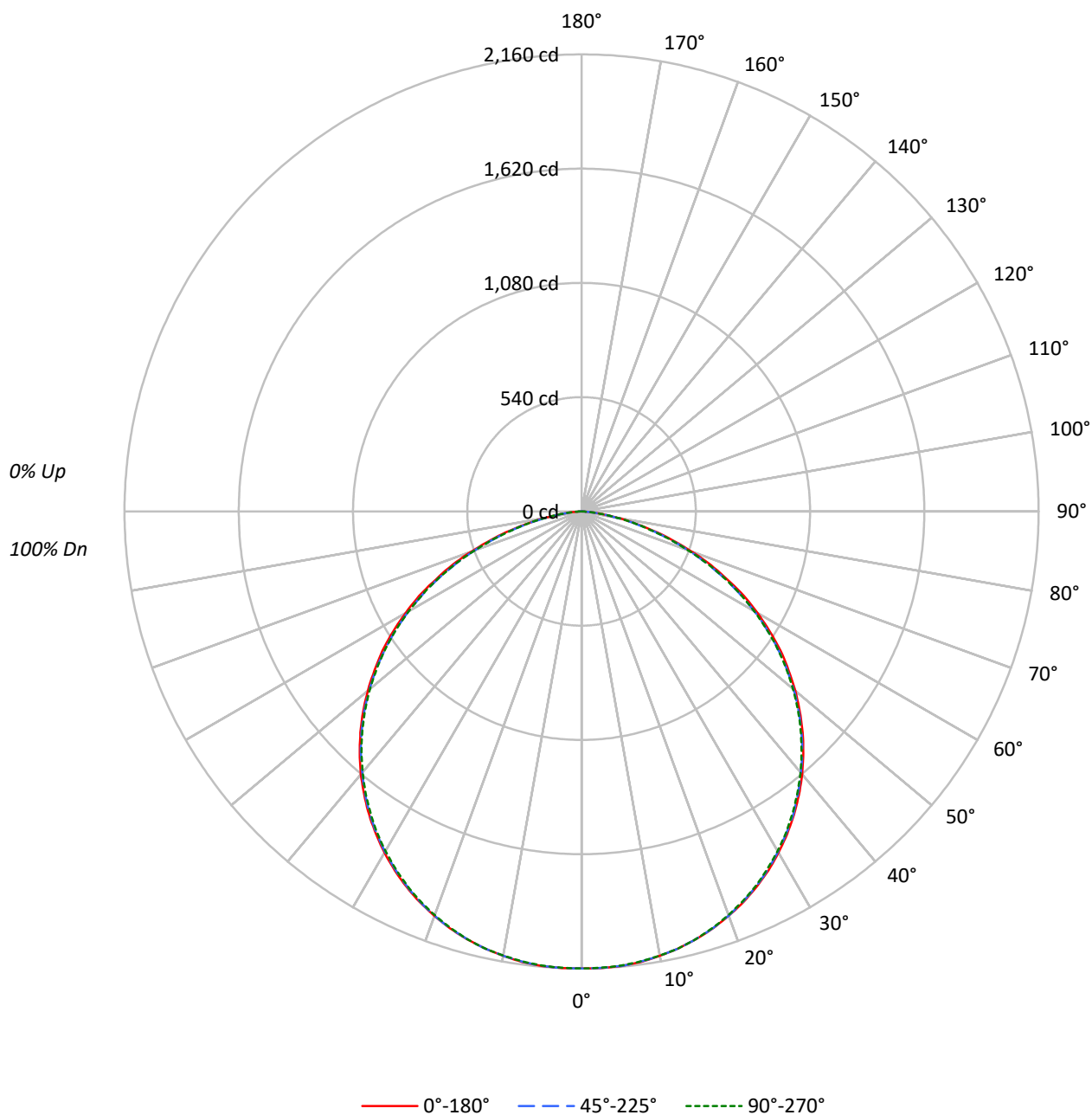
Lumens per Lamp: N/A
Luminaire Lumens: 6105.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2906	2906	2906
5°	2912	2912	2910
10°	2914	2913	2912
15°	2915	2914	2914
20°	2912	2911	2906
25°	2907	2901	2896
30°	2894	2885	2879
35°	2875	2867	2857
40°	2849	2832	2827
45°	2813	2796	2787
50°	2760	2739	2731
55°	2695	2656	2653
60°	2582	2536	2536
65°	2416	2359	2366
70°	2174	2107	2101
75°	1825	1753	1745
80°	1333	1267	1321
85°	753	695	706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2813 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	3.4
10°-20°	590.7	9.7
20°-30°	900.6	14.8
30°-40°	1091.2	17.9
40°-50°	1133.4	18.6
50°-60°	1013.9	16.6
60°-70°	739.0	12.1
70°-80°	366.0	6.0
80°-90°	65.4	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°	1696.3	27.8
0°-40°	2787.5	45.7
0°-60°	4934.9	80.8
0°-90°	6105.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6105.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2156	2157	2156	2156	2155	205
15°	2093	2092	2092	2094	2092	591
25°	1958	1956	1954	1953	1951	902
35°	1750	1748	1746	1742	1739	1095
45°	1478	1475	1470	1466	1465	1139
55°	1149	1140	1132	1132	1131	1023
65°	759	753	741	744	743	752
75°	351	346	337	343	336	374
85°	49	45	45	46	46	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.1	2160.1	2160.1	2160.1	2160.1
2.5°	2160.1	2159.4	2159.4	2160.1	2158.6
5°	2156.3	2157.0	2156.3	2156.3	2154.7
7.5°	2147.7	2147.0	2146.2	2147.0	2144.6
10°	2133.0	2133.0	2132.2	2133.0	2131.5
12.5°	2115.2	2115.2	2115.2	2116.0	2115.2
15°	2092.7	2091.9	2091.9	2093.5	2091.9
17.5°	2066.4	2065.6	2065.6	2064.8	2063.3
20°	2033.8	2033.8	2033.0	2032.3	2029.9
22.5°	1998.9	1998.2	1995.8	1995.8	1992.7
25°	1957.8	1955.5	1954.0	1953.2	1950.9
27.5°	1912.9	1909.8	1907.5	1905.9	1903.6
30°	1862.5	1859.4	1857.1	1854.8	1853.2
32.5°	1808.3	1806.7	1802.8	1802.1	1799.0
35°	1750.1	1747.8	1745.5	1742.4	1739.3
37.5°	1688.1	1685.8	1680.4	1678.8	1676.5
40°	1622.2	1619.1	1612.2	1612.2	1609.8
42.5°	1551.7	1548.6	1544.0	1540.9	1539.3
45°	1478.1	1475.0	1469.5	1466.4	1464.9
47.5°	1399.8	1397.5	1391.3	1388.9	1386.6
50°	1318.4	1315.3	1308.3	1306.8	1304.5
52.5°	1233.1	1231.6	1222.3	1221.5	1219.2
55°	1148.7	1140.1	1132.4	1132.4	1130.8
57.5°	1055.7	1049.5	1039.4	1039.4	1037.8
60°	959.5	954.1	942.5	944.0	942.5
62.5°	865.8	854.1	843.3	847.9	844.1
65°	758.8	752.6	741.0	744.1	743.3
67.5°	661.1	649.5	638.7	644.9	641.8
70°	552.6	546.4	535.6	541.8	534.0
72.5°	450.3	444.9	434.0	441.0	433.3
75°	351.1	345.7	337.2	343.4	335.6
77.5°	257.3	253.5	245.7	251.9	253.5
80°	172.1	167.4	163.5	169.0	170.5
82.5°	100.8	97.7	96.1	96.9	100.8
85°	48.8	45.0	45.0	45.7	45.7
87.5°	13.2	11.6	13.2	14.0	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)