

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: P974656

Luminaire Tested: FLR2-24-80HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974656
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

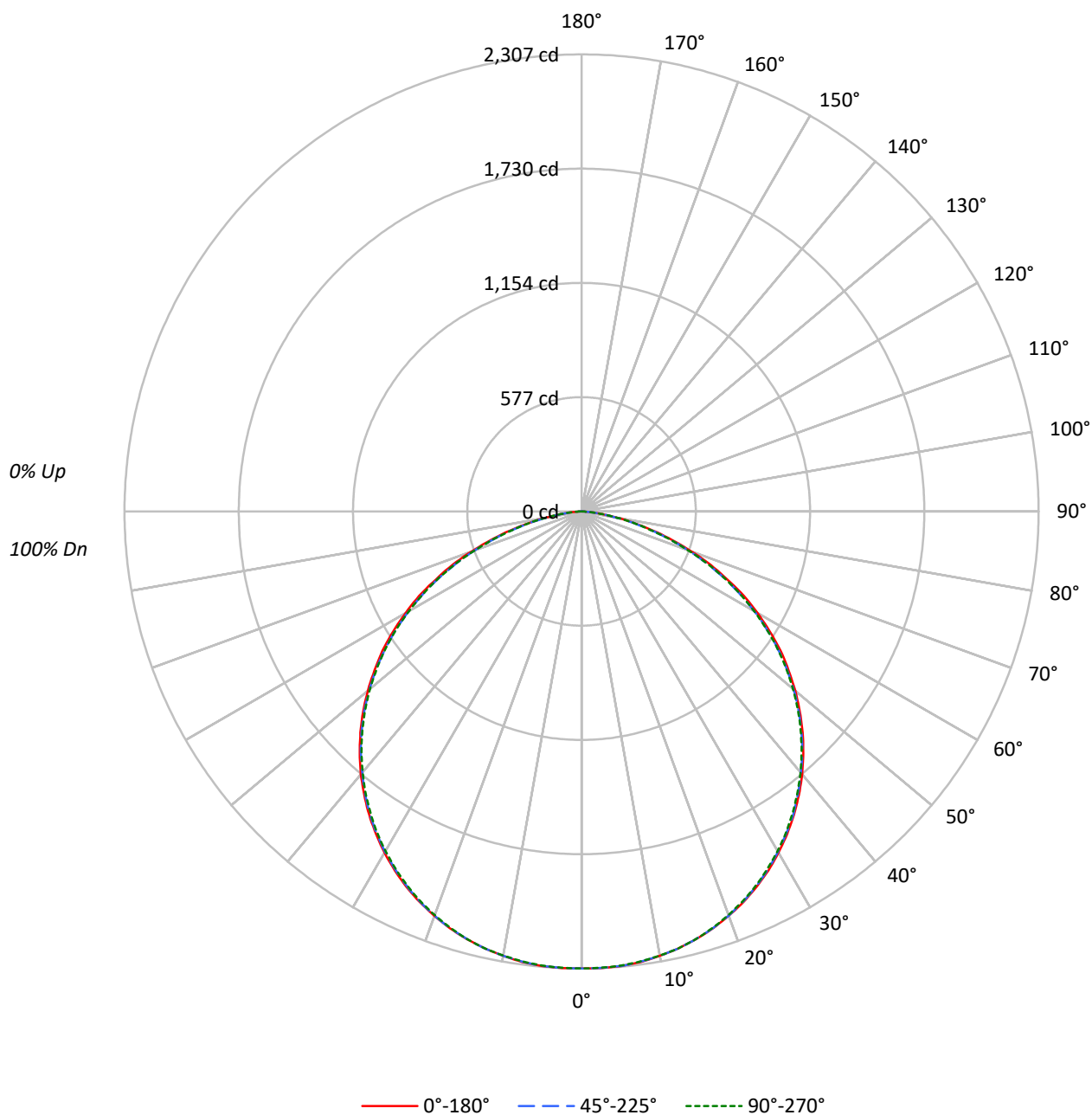
Lumens per Lamp: N/A
Luminaire Lumens: 6520.7 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3104	3104	3104
5°	3110	3110	3108
10°	3113	3111	3110
15°	3113	3112	3112
20°	3110	3109	3104
25°	3104	3098	3093
30°	3091	3082	3075
35°	3070	3062	3051
40°	3043	3024	3020
45°	3004	2987	2977
50°	2947	2925	2916
55°	2878	2837	2833
60°	2758	2709	2709
65°	2580	2520	2528
70°	2322	2250	2244
75°	1949	1872	1864
80°	1424	1354	1411
85°	806	741	753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	3.4
10°-20°	630.9	9.7
20°-30°	961.9	14.8
30°-40°	1165.4	17.9
40°-50°	1210.6	18.6
50°-60°	1082.9	16.6
60°-70°	789.3	12.1
70°-80°	390.9	6.0
80°-90°	69.9	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°	1811.8	27.8
0°-40°	2977.2	45.7
0°-60°	5270.7	80.8
0°-90°	6520.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6520.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2307	2307	2307	2307	2307	
5°	2303	2304	2303	2303	2301	219
15°	2235	2234	2234	2236	2234	631
25°	2091	2089	2087	2086	2084	964
35°	1869	1867	1864	1861	1858	1169
45°	1579	1575	1570	1566	1565	1217
55°	1227	1218	1210	1210	1208	1093
65°	810	804	791	795	794	803
75°	375	369	360	367	358	400
85°	52	48	48	49	49	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2307.2	2307.2	2307.2	2307.2	2307.2
2.5°	2307.2	2306.3	2306.3	2307.2	2305.5
5°	2303.0	2303.8	2303.0	2303.0	2301.4
7.5°	2293.9	2293.1	2292.3	2293.1	2290.6
10°	2278.2	2278.2	2277.4	2278.2	2276.5
12.5°	2259.1	2259.1	2259.1	2260.0	2259.1
15°	2235.1	2234.3	2234.3	2236.0	2234.3
17.5°	2207.0	2206.2	2206.2	2205.3	2203.7
20°	2172.2	2172.2	2171.4	2170.6	2168.1
22.5°	2135.0	2134.1	2131.7	2131.7	2128.4
25°	2091.1	2088.6	2087.0	2086.1	2083.6
27.5°	2043.1	2039.8	2037.3	2035.6	2033.1
30°	1989.3	1986.0	1983.5	1981.0	1979.3
32.5°	1931.3	1929.7	1925.5	1924.7	1921.4
35°	1869.2	1866.8	1864.3	1861.0	1857.6
37.5°	1803.0	1800.5	1794.7	1793.1	1790.6
40°	1732.6	1729.3	1721.9	1721.9	1719.4
42.5°	1657.3	1654.0	1649.0	1645.7	1644.1
45°	1578.7	1575.4	1569.6	1566.3	1564.6
47.5°	1495.1	1492.6	1486.0	1483.5	1481.0
50°	1408.1	1404.8	1397.4	1395.7	1393.2
52.5°	1317.1	1315.4	1305.5	1304.7	1302.2
55°	1226.8	1217.7	1209.5	1209.5	1207.8
57.5°	1127.5	1120.9	1110.1	1110.1	1108.5
60°	1024.9	1019.1	1006.6	1008.3	1006.6
62.5°	924.7	912.3	900.7	905.6	901.5
65°	810.4	803.8	791.4	794.7	793.9
67.5°	706.1	693.7	682.1	688.8	685.4
70°	590.2	583.6	572.0	578.7	570.4
72.5°	481.0	475.2	463.6	471.0	462.8
75°	375.0	369.2	360.1	366.7	358.5
77.5°	274.8	270.7	262.4	269.0	270.7
80°	183.8	178.8	174.7	180.5	182.1
82.5°	107.6	104.3	102.7	103.5	107.6
85°	52.2	48.0	48.0	48.8	48.8
87.5°	14.1	12.4	14.1	14.9	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)