

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: P973722

Luminaire Tested: FLR2-22-25HE-L830-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25HE-L830-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

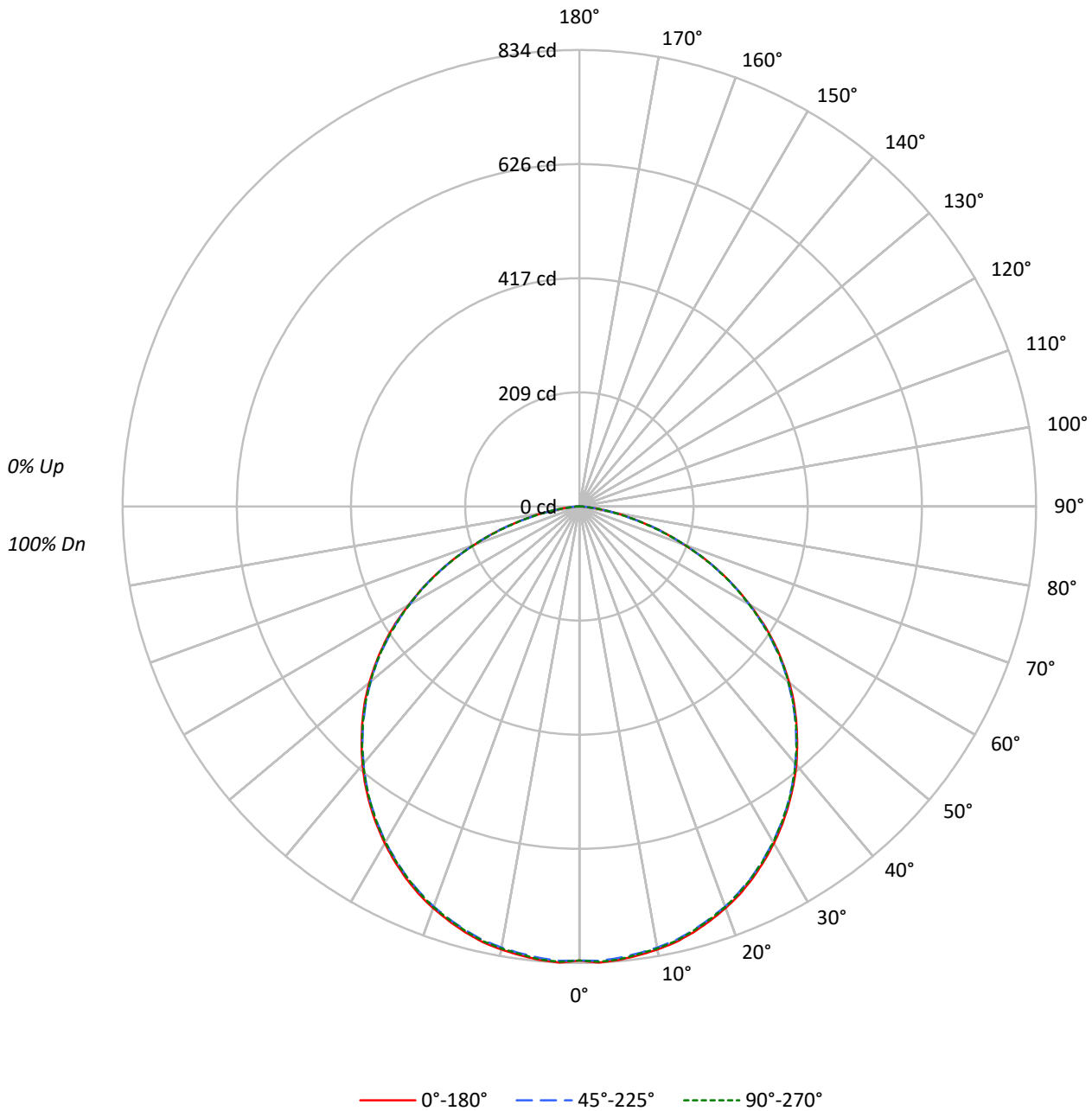
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2320.1 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.2  
Input Voltage (V): 120  
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																		
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																												
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60																												
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																												
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																												
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																												
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																												
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30																												
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																												
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2232	2232	2232
5°	2247	2237	2244
10°	2246	2236	2240
15°	2244	2234	2237
20°	2236	2228	2231
25°	2224	2215	2217
30°	2208	2199	2201
35°	2189	2180	2182
40°	2165	2155	2157
45°	2133	2124	2128
50°	2096	2081	2085
55°	2036	2019	2027
60°	1936	1928	1928
65°	1808	1805	1798
70°	1600	1609	1604
75°	1347	1337	1327
80°	969	953	945
85°	506	506	491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2133 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	225.9	9.7
20°-30°	343.3	14.8
30°-40°	415.0	17.9
40°-50°	430.7	18.6
50°-60°	385.1	16.6
60°-70°	280.0	12.1
70°-80°	137.7	5.9
80°-90°	23.9	1.0
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°	647.8	27.9
0°-40°	1062.8	45.8
0°-60°	1878.5	81.0
0°-90°	2320.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	832	822	828	825	831	79
15°	806	796	802	800	803	227
25°	749	741	746	745	747	345
35°	666	662	664	664	664	417
45°	561	558	558	559	559	432
55°	434	432	430	432	432	387
65°	284	285	283	283	282	280
75°	130	131	129	129	128	138
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	829.6	829.6	829.6	829.6	829.6
2.5°	834.2	824.5	830.6	827.1	832.7
5°	831.7	821.9	828.1	825.0	830.6
7.5°	827.1	817.3	823.5	820.4	825.0
10°	821.9	811.7	818.3	815.3	819.9
12.5°	815.3	805.5	811.7	809.1	813.2
15°	805.5	796.3	801.9	799.9	803.0
17.5°	793.7	784.5	790.2	788.6	791.2
20°	780.9	772.2	777.9	776.3	778.9
22.5°	766.6	757.4	762.5	761.5	763.5
25°	749.2	741.0	746.1	744.6	746.6
27.5°	730.7	723.0	727.1	727.1	728.2
30°	710.7	703.6	707.7	707.7	708.2
32.5°	689.2	683.6	686.1	686.7	686.7
35°	666.2	661.5	663.6	664.1	664.1
37.5°	642.1	637.5	639.0	640.0	640.0
40°	616.4	612.3	613.4	614.4	613.9
42.5°	588.8	585.7	586.2	587.2	587.2
45°	560.6	558.0	558.0	559.1	559.1
47.5°	531.9	529.3	528.3	529.3	529.3
50°	500.6	498.1	497.1	498.1	498.1
52.5°	467.8	465.3	465.3	465.3	465.8
55°	434.0	431.5	430.4	431.5	432.0
57.5°	398.2	397.1	395.6	396.1	394.6
60°	359.7	359.7	358.2	359.2	358.2
62.5°	322.3	323.3	321.8	321.8	320.8
65°	283.9	284.9	283.4	283.4	282.3
67.5°	244.4	246.0	243.9	243.9	242.9
70°	203.4	206.5	204.5	205.0	203.9
72.5°	166.5	168.1	166.0	166.0	165.0
75°	129.6	130.7	128.6	129.1	127.6
77.5°	93.3	94.8	92.7	93.3	92.7
80°	62.5	63.0	61.5	62.0	61.0
82.5°	36.4	36.9	36.4	35.9	35.4
85°	16.4	16.9	16.4	16.4	15.9
87.5°	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)