

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: P973762

Luminaire Tested: FLR2-22-60HE-L830-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973762  
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: FLR2-22-60HE-L830-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

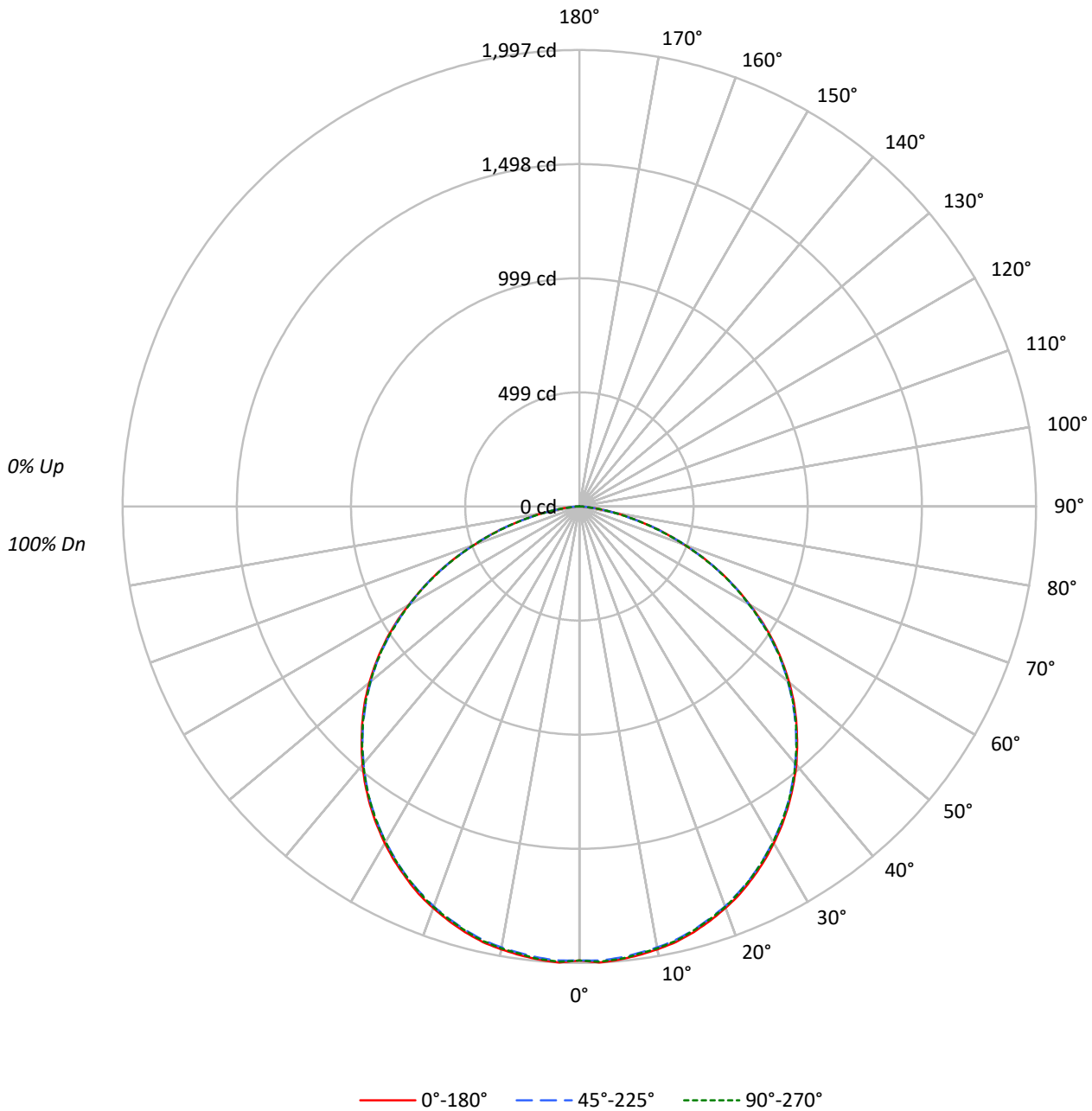
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5554.3 lumens  
Efficiency: N/A  
Efficacy: 117.2 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): 47.4  
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	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

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

	0°	45°	90°
0°	5345	5345	5345
5°	5378	5355	5372
10°	5377	5353	5363
15°	5373	5349	5355
20°	5354	5333	5340
25°	5325	5304	5307
30°	5287	5264	5268
35°	5239	5219	5223
40°	5184	5158	5163
45°	5108	5084	5093
50°	5017	4982	4992
55°	4875	4835	4852
60°	4635	4615	4615
65°	4327	4320	4304
70°	3832	3851	3842
75°	3227	3201	3176
80°	2320	2281	2263
85°	1213	1213	1173

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5108 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	3.4
10°-20°	540.9	9.7
20°-30°	821.9	14.8
30°-40°	993.4	17.9
40°-50°	1031.1	18.6
50°-60°	921.9	16.6
60°-70°	670.3	12.1
70°-80°	329.6	5.9
80°-90°	57.2	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°	1550.8	27.9
0°-40°	2544.3	45.8
0°-60°	4497.3	81.0
0°-90°	5554.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5554.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1991	1968	1982	1975	1989	189
15°	1928	1906	1920	1915	1922	544
25°	1794	1774	1786	1782	1787	827
35°	1595	1584	1589	1590	1590	998
45°	1342	1336	1336	1338	1338	1035
55°	1039	1033	1030	1033	1034	926
65°	680	682	678	678	676	670
75°	310	313	308	309	306	329
85°	39	40	39	39	38	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1986.1	1986.1	1986.1	1986.1	1986.1
2.5°	1997.2	1973.9	1988.6	1980.0	1993.5
5°	1991.0	1967.7	1982.5	1975.1	1988.6
7.5°	1980.0	1956.7	1971.4	1964.1	1975.1
10°	1967.7	1943.2	1959.1	1951.8	1962.8
12.5°	1951.8	1928.5	1943.2	1937.1	1946.9
15°	1928.5	1906.4	1919.9	1915.0	1922.3
17.5°	1900.3	1878.2	1891.7	1888.0	1894.1
20°	1869.6	1848.7	1862.2	1858.5	1864.7
22.5°	1835.2	1813.2	1825.4	1823.0	1827.9
25°	1793.5	1773.9	1786.2	1782.5	1787.4
27.5°	1749.4	1731.0	1740.8	1740.8	1743.2
30°	1701.5	1684.3	1694.2	1694.2	1695.4
32.5°	1650.0	1636.5	1642.6	1643.9	1643.9
35°	1594.8	1583.8	1588.7	1589.9	1589.9
37.5°	1537.1	1526.1	1529.8	1532.2	1532.2
40°	1475.8	1466.0	1468.4	1470.9	1469.7
42.5°	1409.6	1402.2	1403.4	1405.9	1405.9
45°	1342.1	1335.9	1335.9	1338.4	1338.4
47.5°	1273.4	1267.2	1264.8	1267.2	1267.2
50°	1198.5	1192.4	1190.0	1192.4	1192.4
52.5°	1120.0	1113.9	1113.9	1113.9	1115.1
55°	1039.1	1032.9	1030.5	1032.9	1034.2
57.5°	953.2	950.7	947.1	948.3	944.6
60°	861.2	861.2	857.5	860.0	857.5
62.5°	771.6	774.1	770.4	770.4	768.0
65°	679.6	682.1	678.4	678.4	675.9
67.5°	585.2	588.8	583.9	583.9	581.5
70°	487.0	494.4	489.5	490.7	488.3
72.5°	398.7	402.4	397.5	397.5	395.0
75°	310.4	312.8	307.9	309.1	305.5
77.5°	223.3	227.0	222.0	223.3	222.0
80°	149.7	150.9	147.2	148.4	146.0
82.5°	87.1	88.3	87.1	85.9	84.6
85°	39.3	40.5	39.3	39.3	38.0
87.5°	9.8	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)