

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: P973732

Luminaire Tested: FLR2-22-60HE-L830-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973732  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

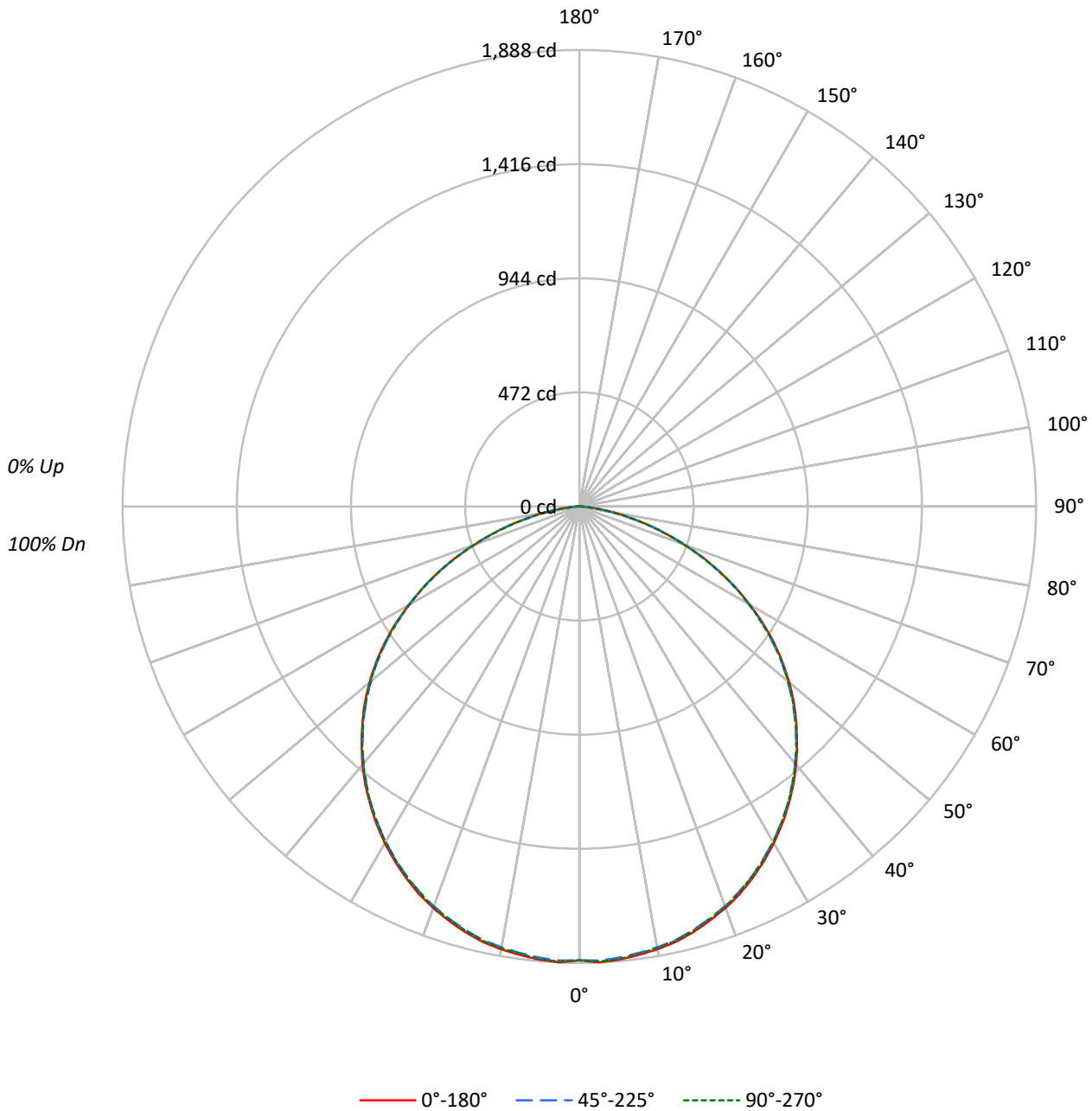
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5249.2 lumens  
Efficiency: N/A  
Efficacy: 110.7 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	5051	5051	5051
5°	5083	5061	5077
10°	5081	5059	5069
15°	5077	5055	5061
20°	5060	5040	5047
25°	5033	5012	5016
30°	4997	4975	4979
35°	4951	4932	4936
40°	4899	4875	4879
45°	4827	4805	4814
50°	4742	4708	4718
55°	4607	4569	4586
60°	4380	4362	4362
65°	4090	4082	4067
70°	3622	3640	3630
75°	3049	3026	3002
80°	2191	2156	2139
85°	1145	1145	1108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4827 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	3.4
10°-20°	511.1	9.7
20°-30°	776.8	14.8
30°-40°	938.9	17.9
40°-50°	974.5	18.6
50°-60°	871.2	16.6
60°-70°	633.4	12.1
70°-80°	311.5	5.9
80°-90°	54.0	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°	1465.6	27.9
0°-40°	2404.5	45.8
0°-60°	4250.2	81.0
0°-90°	5249.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5249.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1882	1860	1874	1867	1879	179
15°	1822	1802	1814	1810	1817	514
25°	1695	1676	1688	1685	1689	781
35°	1507	1497	1501	1503	1503	943
45°	1268	1263	1263	1265	1265	978
55°	982	976	974	976	977	875
65°	642	645	641	641	639	633
75°	293	296	291	292	289	311
85°	37	38	37	37	36	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1877.0	1877.0	1877.0	1877.0	1877.0
2.5°	1887.5	1865.4	1879.4	1871.2	1884.0
5°	1881.7	1859.6	1873.6	1866.6	1879.4
7.5°	1871.2	1849.2	1863.1	1856.2	1866.6
10°	1859.6	1836.5	1851.5	1844.6	1855.0
12.5°	1844.6	1822.5	1836.5	1830.7	1839.9
15°	1822.5	1801.7	1814.4	1809.8	1816.8
17.5°	1795.9	1775.0	1787.8	1784.3	1790.1
20°	1766.9	1747.2	1759.9	1756.5	1762.3
22.5°	1734.4	1713.6	1725.2	1722.8	1727.5
25°	1695.0	1676.5	1688.1	1684.6	1689.2
27.5°	1653.3	1635.9	1645.2	1645.2	1647.5
30°	1608.1	1591.8	1601.1	1601.1	1602.3
32.5°	1559.4	1546.6	1552.4	1553.6	1553.6
35°	1507.2	1496.8	1501.4	1502.6	1502.6
37.5°	1452.7	1442.3	1445.7	1448.1	1448.1
40°	1394.7	1385.5	1387.8	1390.1	1388.9
42.5°	1332.1	1325.2	1326.3	1328.7	1328.7
45°	1268.4	1262.6	1262.6	1264.9	1264.9
47.5°	1203.4	1197.6	1195.3	1197.6	1197.6
50°	1132.7	1126.9	1124.6	1126.9	1126.9
52.5°	1058.5	1052.7	1052.7	1052.7	1053.9
55°	982.0	976.2	973.9	976.2	977.4
57.5°	900.8	898.5	895.0	896.2	892.7
60°	813.9	813.9	810.4	812.7	810.4
62.5°	729.3	731.6	728.1	728.1	725.8
65°	642.3	644.6	641.1	641.1	638.8
67.5°	553.0	556.5	551.9	551.9	549.5
70°	460.3	467.2	462.6	463.8	461.4
72.5°	376.8	380.3	375.6	375.6	373.3
75°	293.3	295.6	291.0	292.2	288.7
77.5°	211.0	214.5	209.8	211.0	209.8
80°	141.4	142.6	139.1	140.3	138.0
82.5°	82.3	83.5	82.3	81.2	80.0
85°	37.1	38.3	37.1	37.1	35.9
87.5°	9.3	9.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)