

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: P973930

Luminaire Tested: FLR2-22-60HE-L840-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973930  
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-L840-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

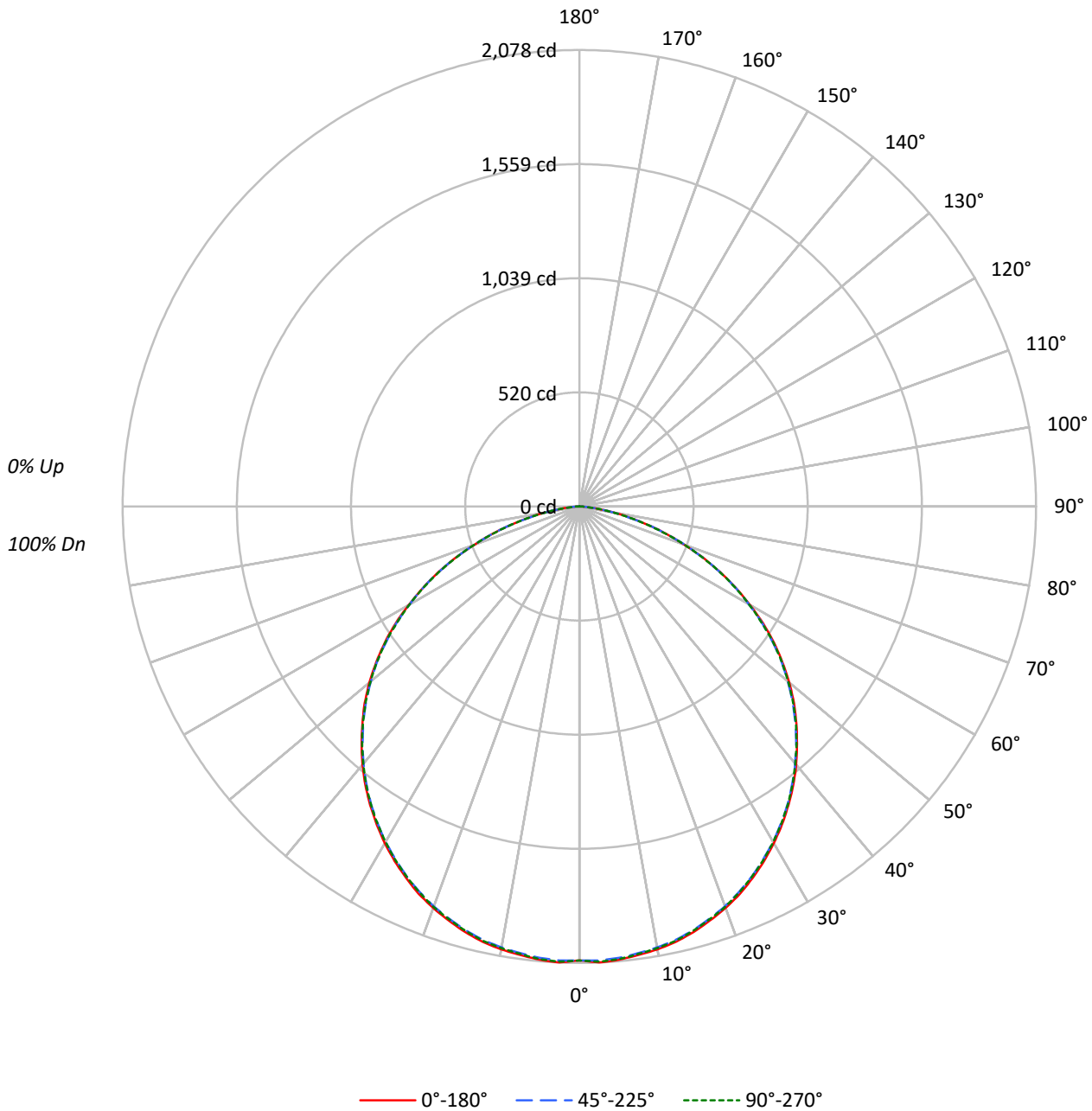
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5778.7 lumens  
Efficiency: N/A  
Efficacy: 121.9 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°	5561	5561	5561
5°	5596	5572	5589
10°	5594	5570	5580
15°	5590	5565	5572
20°	5570	5548	5556
25°	5540	5518	5521
30°	5501	5477	5481
35°	5451	5430	5434
40°	5394	5367	5371
45°	5314	5289	5299
50°	5220	5183	5194
55°	5072	5030	5048
60°	4822	4802	4802
65°	4502	4494	4478
70°	3987	4007	3997
75°	3357	3331	3304
80°	2413	2374	2354
85°	1260	1260	1223

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5314 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.7	3.4
10°-20°	562.7	9.7
20°-30°	855.1	14.8
30°-40°	1033.6	17.9
40°-50°	1072.8	18.6
50°-60°	959.1	16.6
60°-70°	697.3	12.1
70°-80°	342.9	5.9
80°-90°	59.5	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°	1613.5	27.9
0°-40°	2647.0	45.8
0°-60°	4679.0	81.0
0°-90°	5778.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2066	2066	2066	2066	2066	
5°	2072	2047	2063	2055	2069	197
15°	2006	1983	1998	1992	2000	566
25°	1866	1846	1858	1854	1860	860
35°	1659	1648	1653	1654	1654	1038
45°	1396	1390	1390	1392	1392	1077
55°	1081	1075	1072	1075	1076	964
65°	707	710	706	706	703	697
75°	323	326	320	322	318	343
85°	41	42	41	41	40	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2066.4	2066.4	2066.4	2066.4	2066.4
2.5°	2077.9	2053.6	2068.9	2060.0	2074.0
5°	2071.5	2047.2	2062.6	2054.9	2068.9
7.5°	2060.0	2035.7	2051.1	2043.4	2054.9
10°	2047.2	2021.7	2038.3	2030.6	2042.1
12.5°	2030.6	2006.4	2021.7	2015.3	2025.5
15°	2006.4	1983.4	1997.5	1992.4	2000.0
17.5°	1977.0	1954.1	1968.1	1964.3	1970.7
20°	1945.1	1923.4	1937.5	1933.6	1940.0
22.5°	1909.4	1886.4	1899.2	1896.6	1901.7
25°	1866.0	1845.6	1858.3	1854.5	1859.6
27.5°	1820.0	1800.9	1811.1	1811.1	1813.7
30°	1770.3	1752.4	1762.6	1762.6	1763.9
32.5°	1716.7	1702.6	1709.0	1710.3	1710.3
35°	1659.2	1647.7	1652.8	1654.1	1654.1
37.5°	1599.2	1587.8	1591.6	1594.1	1594.1
40°	1535.4	1525.2	1527.8	1530.3	1529.0
42.5°	1466.5	1458.8	1460.1	1462.7	1462.7
45°	1396.3	1389.9	1389.9	1392.5	1392.5
47.5°	1324.8	1318.5	1315.9	1318.5	1318.5
50°	1247.0	1240.6	1238.0	1240.6	1240.6
52.5°	1165.3	1158.9	1158.9	1158.9	1160.2
55°	1081.1	1074.7	1072.1	1074.7	1075.9
57.5°	991.7	989.2	985.3	986.6	982.8
60°	896.0	896.0	892.2	894.7	892.2
62.5°	802.8	805.4	801.5	801.5	799.0
65°	707.1	709.6	705.8	705.8	703.3
67.5°	608.8	612.6	607.5	607.5	605.0
70°	506.7	514.4	509.3	510.5	508.0
72.5°	414.8	418.6	413.5	413.5	411.0
75°	322.9	325.5	320.4	321.6	317.8
77.5°	232.3	236.1	231.0	232.3	231.0
80°	155.7	157.0	153.2	154.4	151.9
82.5°	90.6	91.9	90.6	89.3	88.1
85°	40.8	42.1	40.8	40.8	39.6
87.5°	10.2	10.2	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)