

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: P973900

Luminaire Tested: FLR2-22-60HE-L840-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973900  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

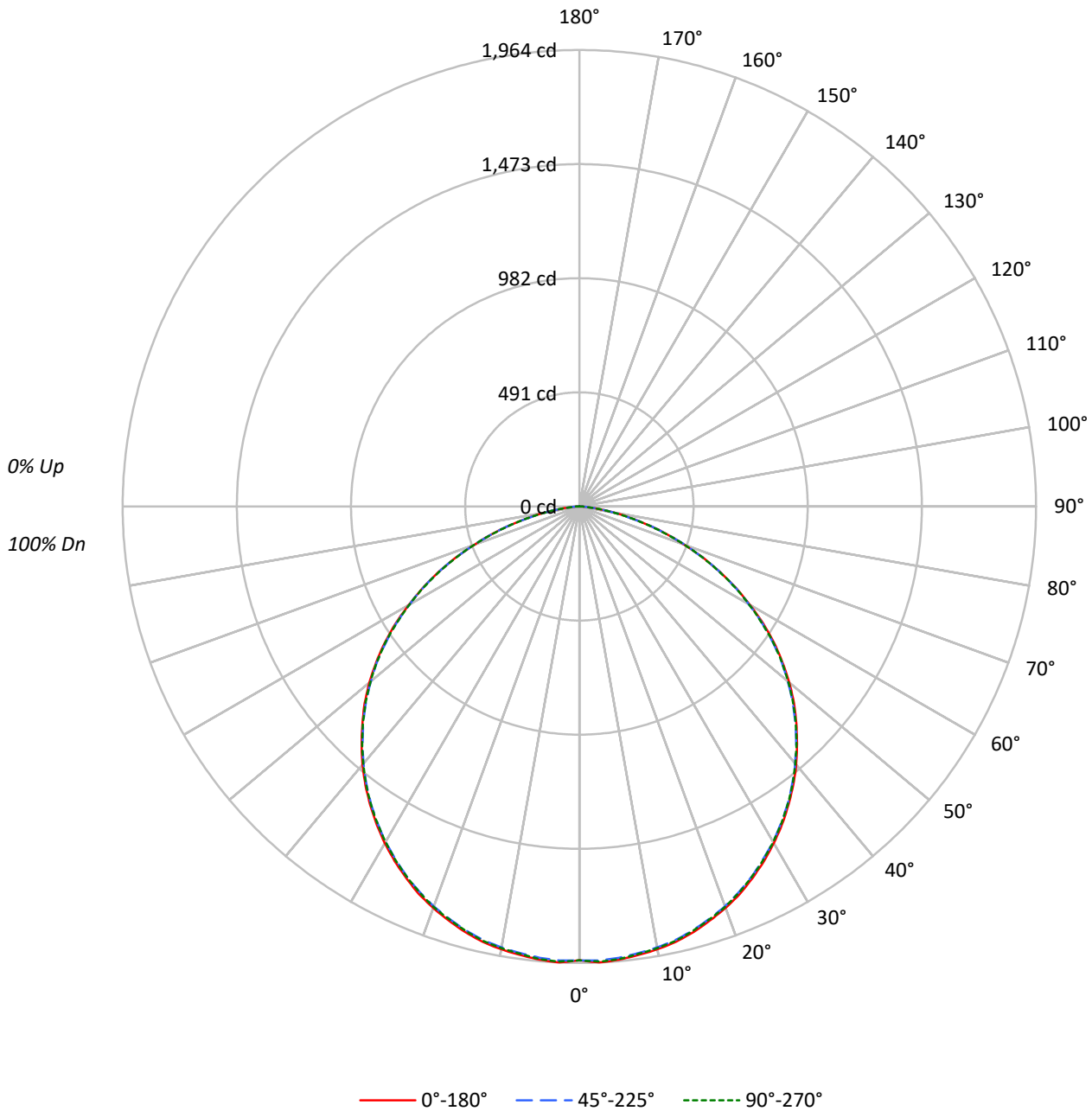
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5461.3 lumens  
Efficiency: N/A  
Efficacy: 115.2 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				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	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°	5255	5255	5255
5°	5288	5266	5282
10°	5287	5264	5274
15°	5283	5259	5266
20°	5264	5244	5251
25°	5236	5215	5218
30°	5198	5176	5180
35°	5151	5132	5136
40°	5097	5072	5076
45°	5022	4999	5008
50°	4934	4898	4909
55°	4793	4754	4770
60°	4557	4538	4538
65°	4255	4247	4232
70°	3768	3787	3777
75°	3173	3148	3123
80°	2281	2242	2224
85°	1192	1192	1155

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5022 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.9	3.4
10°-20°	531.8	9.7
20°-30°	808.1	14.8
30°-40°	976.8	17.9
40°-50°	1013.9	18.6
50°-60°	906.4	16.6
60°-70°	659.0	12.1
70°-80°	324.1	5.9
80°-90°	56.2	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°	1524.9	27.9
0°-40°	2501.7	45.8
0°-60°	4422.0	81.0
0°-90°	5461.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5461.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1958	1935	1949	1942	1955	186
15°	1896	1874	1888	1883	1890	535
25°	1764	1744	1756	1753	1758	813
35°	1568	1557	1562	1563	1563	981
45°	1320	1314	1314	1316	1316	1018
55°	1022	1016	1013	1016	1017	911
65°	668	671	667	667	665	659
75°	305	308	303	304	300	324
85°	39	40	39	39	37	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1952.9	1952.9	1952.9	1952.9	1952.9
2.5°	1963.7	1940.8	1955.3	1946.8	1960.1
5°	1957.7	1934.8	1949.3	1942.0	1955.3
7.5°	1946.8	1923.9	1938.4	1931.2	1942.0
10°	1934.8	1910.7	1926.3	1919.1	1930.0
12.5°	1919.1	1896.2	1910.7	1904.6	1914.3
15°	1896.2	1874.5	1887.7	1882.9	1890.2
17.5°	1868.4	1846.7	1860.0	1856.4	1862.4
20°	1838.3	1817.8	1831.1	1827.4	1833.5
22.5°	1804.5	1782.8	1794.9	1792.5	1797.3
25°	1763.5	1744.2	1756.3	1752.6	1757.5
27.5°	1720.1	1702.0	1711.6	1711.6	1714.0
30°	1673.0	1656.1	1665.8	1665.8	1667.0
32.5°	1622.4	1609.1	1615.1	1616.3	1616.3
35°	1568.1	1557.2	1562.1	1563.3	1563.3
37.5°	1511.4	1500.5	1504.2	1506.6	1506.6
40°	1451.1	1441.4	1443.9	1446.3	1445.1
42.5°	1386.0	1378.7	1379.9	1382.3	1382.3
45°	1319.6	1313.6	1313.6	1316.0	1316.0
47.5°	1252.1	1246.0	1243.6	1246.0	1246.0
50°	1178.5	1172.5	1170.0	1172.5	1172.5
52.5°	1101.3	1095.3	1095.3	1095.3	1096.5
55°	1021.7	1015.6	1013.2	1015.6	1016.8
57.5°	937.2	934.8	931.2	932.4	928.8
60°	846.8	846.8	843.2	845.6	843.2
62.5°	758.7	761.1	757.5	757.5	755.1
65°	668.2	670.7	667.0	667.0	664.6
67.5°	575.4	579.0	574.2	574.2	571.8
70°	478.9	486.1	481.3	482.5	480.1
72.5°	392.0	395.6	390.8	390.8	388.4
75°	305.2	307.6	302.8	304.0	300.4
77.5°	219.5	223.2	218.3	219.5	218.3
80°	147.2	148.4	144.7	146.0	143.5
82.5°	85.6	86.8	85.6	84.4	83.2
85°	38.6	39.8	38.6	38.6	37.4
87.5°	9.6	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)