

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: P973828

Luminaire Tested: FLR2-22-60HE-L835-CP250

Issue Date: 3/13/2025

**Test Information**

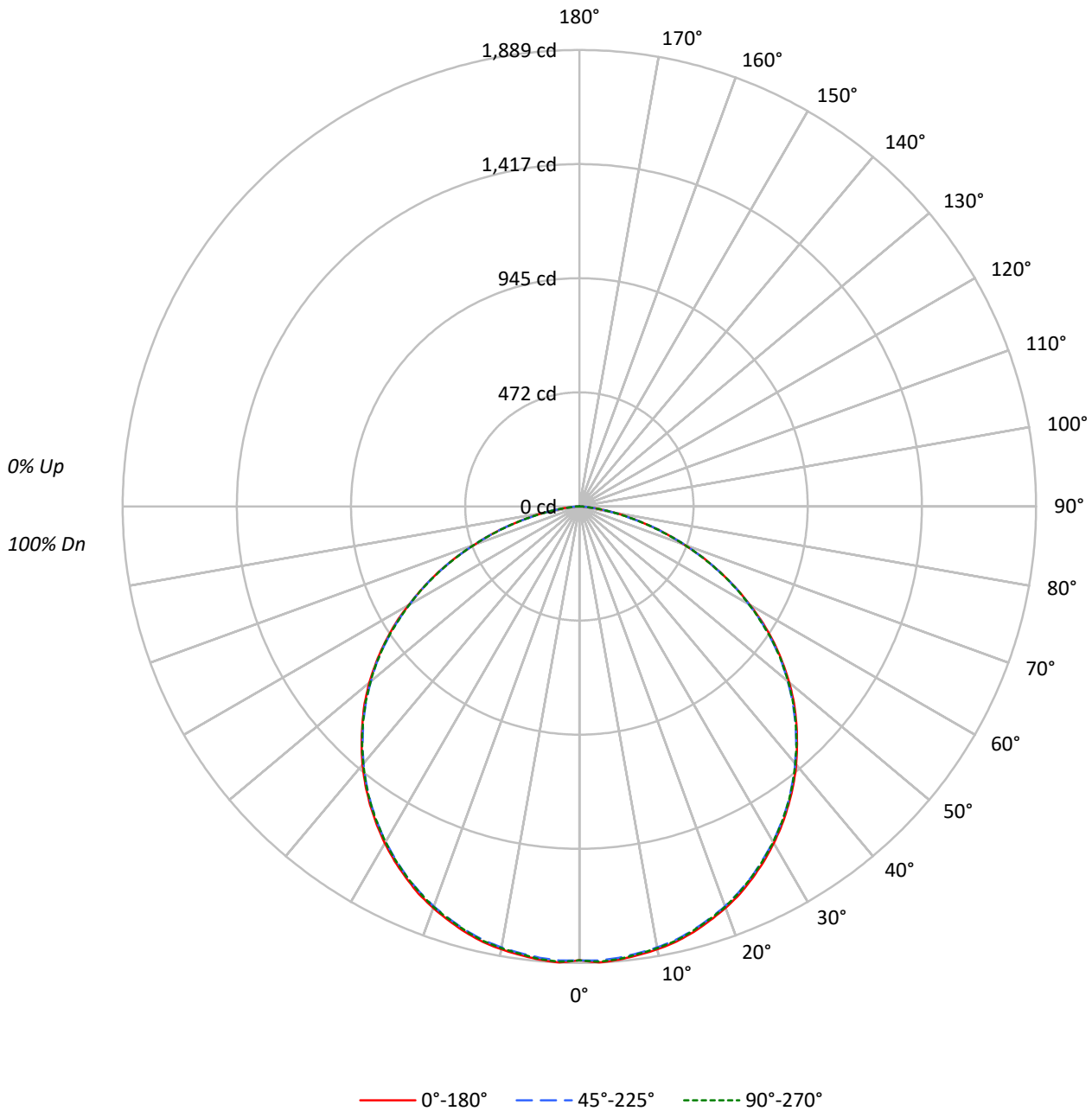
Test Method: LM-79-2019  
Report Number: P973828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-60HE-L835-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5252.9 lumens  
Efficiency: N/A  
Efficacy: 110.8 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): 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°	5055	5055	5055
5°	5086	5065	5080
10°	5085	5063	5072
15°	5081	5058	5065
20°	5063	5044	5050
25°	5036	5016	5019
30°	5000	4978	4982
35°	4955	4936	4939
40°	4903	4879	4882
45°	4830	4808	4817
50°	4745	4711	4721
55°	4610	4572	4588
60°	4384	4365	4365
65°	4092	4085	4071
70°	3624	3642	3633
75°	3052	3028	3004
80°	2193	2157	2140
85°	1145	1145	1112

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4830 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	3.4
10°-20°	511.5	9.7
20°-30°	777.3	14.8
30°-40°	939.5	17.9
40°-50°	975.2	18.6
50°-60°	871.9	16.6
60°-70°	633.9	12.1
70°-80°	311.7	5.9
80°-90°	54.1	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°	1466.7	27.9
0°-40°	2406.2	45.8
0°-60°	4253.2	81.0
0°-90°	5252.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5252.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1883	1861	1875	1868	1881	179
15°	1824	1803	1816	1811	1818	515
25°	1696	1678	1689	1686	1690	782
35°	1508	1498	1502	1504	1504	944
45°	1269	1264	1264	1266	1266	979
55°	983	977	975	977	978	876
65°	643	645	642	642	639	634
75°	294	296	291	292	289	312
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°	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1888.8	1866.8	1880.7	1872.6	1885.3
5°	1883.0	1861.0	1874.9	1867.9	1880.7
7.5°	1872.6	1850.5	1864.4	1857.5	1867.9
10°	1861.0	1837.7	1852.8	1845.9	1856.3
12.5°	1845.9	1823.8	1837.7	1831.9	1841.2
15°	1823.8	1802.9	1815.7	1811.1	1818.0
17.5°	1797.1	1776.3	1789.0	1785.5	1791.3
20°	1768.1	1748.4	1761.2	1757.7	1763.5
22.5°	1735.7	1714.8	1726.4	1724.0	1728.7
25°	1696.2	1677.6	1689.2	1685.8	1690.4
27.5°	1654.4	1637.0	1646.3	1646.3	1648.6
30°	1609.2	1592.9	1602.2	1602.2	1603.4
32.5°	1560.5	1547.7	1553.5	1554.7	1554.7
35°	1508.3	1497.8	1502.5	1503.6	1503.6
37.5°	1453.7	1443.3	1446.8	1449.1	1449.1
40°	1395.7	1386.4	1388.8	1391.1	1389.9
42.5°	1333.1	1326.1	1327.3	1329.6	1329.6
45°	1269.3	1263.5	1263.5	1265.8	1265.8
47.5°	1204.3	1198.5	1196.2	1198.5	1198.5
50°	1133.5	1127.7	1125.4	1127.7	1127.7
52.5°	1059.3	1053.5	1053.5	1053.5	1054.6
55°	982.7	976.9	974.6	976.9	978.0
57.5°	901.5	899.2	895.7	896.8	893.3
60°	814.5	814.5	811.0	813.3	811.0
62.5°	729.8	732.1	728.6	728.6	726.3
65°	642.7	645.1	641.6	641.6	639.3
67.5°	553.4	556.9	552.3	552.3	549.9
70°	460.6	467.6	462.9	464.1	461.8
72.5°	377.1	380.5	375.9	375.9	373.6
75°	293.5	295.8	291.2	292.4	288.9
77.5°	211.2	214.6	210.0	211.2	210.0
80°	141.5	142.7	139.2	140.4	138.1
82.5°	82.4	83.5	82.4	81.2	80.1
85°	37.1	38.3	37.1	37.1	36.0
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)