

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: P973834

Luminaire Tested: FLR2-22-60HE-L835-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973834  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

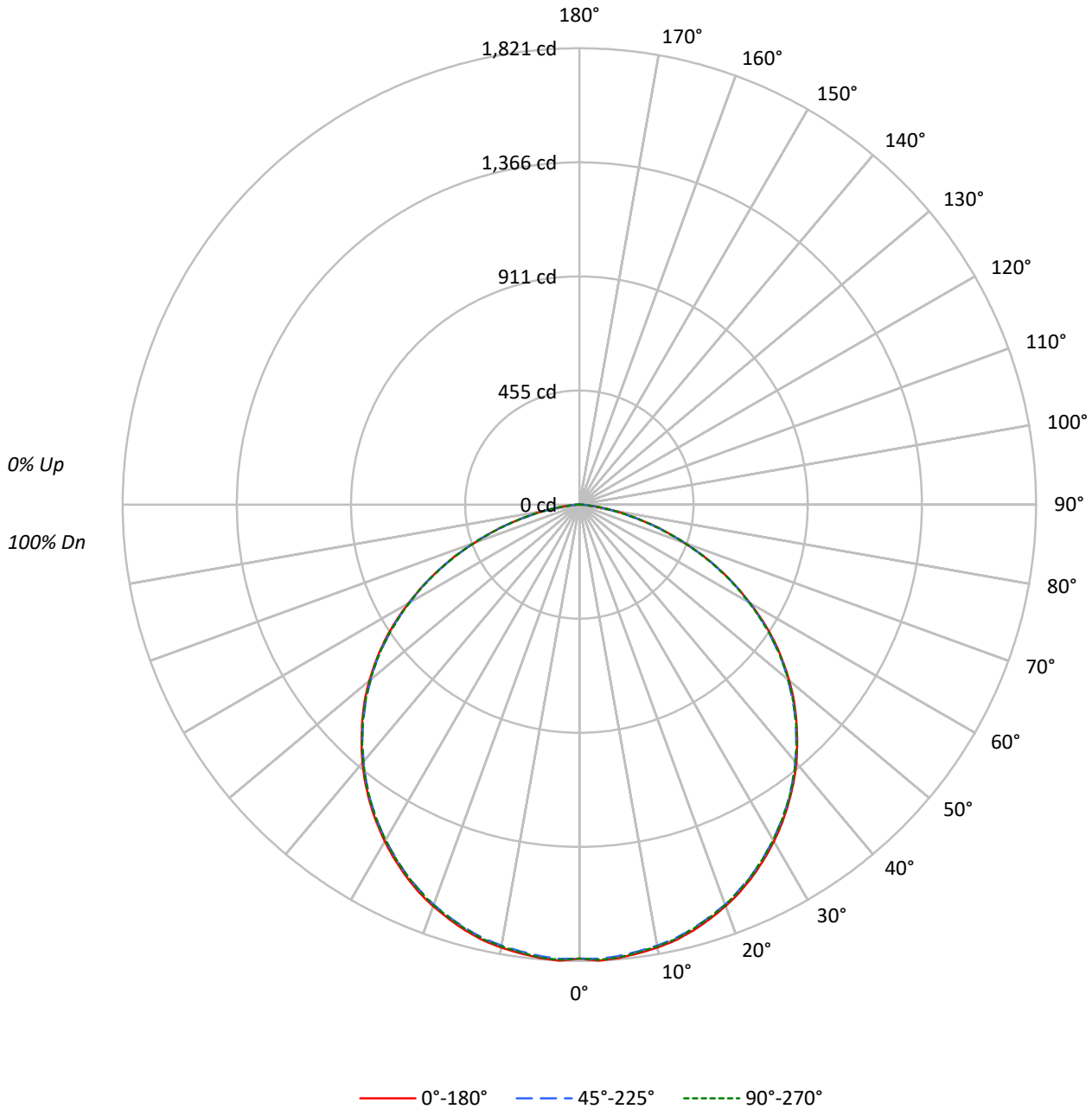
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5065.6 lumens  
Efficiency: N/A  
Efficacy: 106.9 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°	4874	4874	4874
5°	4905	4884	4899
10°	4904	4882	4891
15°	4900	4878	4884
20°	4883	4864	4870
25°	4857	4837	4840
30°	4822	4801	4804
35°	4778	4760	4763
40°	4728	4704	4708
45°	4658	4637	4645
50°	4576	4544	4553
55°	4446	4409	4425
60°	4227	4209	4209
65°	3947	3940	3926
70°	3495	3512	3504
75°	2943	2920	2897
80°	2115	2081	2063
85°	1105	1105	1071

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4658 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	3.4
10°-20°	493.3	9.7
20°-30°	749.6	14.8
30°-40°	906.0	17.9
40°-50°	940.4	18.6
50°-60°	840.7	16.6
60°-70°	611.3	12.1
70°-80°	300.6	5.9
80°-90°	52.1	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°	1414.4	27.9
0°-40°	2320.4	45.8
0°-60°	4101.5	81.0
0°-90°	5065.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1816	1795	1808	1801	1814	173
15°	1759	1739	1751	1746	1753	496
25°	1636	1618	1629	1626	1630	754
35°	1454	1444	1449	1450	1450	910
45°	1224	1218	1218	1221	1221	944
55°	948	942	940	942	943	845
65°	620	622	619	619	616	611
75°	283	285	281	282	279	300
85°	36	37	36	36	35	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1811.4	1811.4	1811.4	1811.4	1811.4
2.5°	1821.4	1800.2	1813.6	1805.8	1818.1
5°	1815.8	1794.6	1808.0	1801.3	1813.6
7.5°	1805.8	1784.5	1797.9	1791.2	1801.3
10°	1794.6	1772.2	1786.8	1780.0	1790.1
12.5°	1780.0	1758.8	1772.2	1766.6	1775.6
15°	1758.8	1738.6	1751.0	1746.5	1753.2
17.5°	1733.1	1712.9	1725.2	1721.9	1727.5
20°	1705.1	1686.1	1698.4	1695.0	1700.6
22.5°	1673.8	1653.6	1664.8	1662.6	1667.0
25°	1635.7	1617.8	1629.0	1625.6	1630.1
27.5°	1595.4	1578.7	1587.6	1587.6	1589.8
30°	1551.8	1536.1	1545.1	1545.1	1546.2
32.5°	1504.8	1492.5	1498.1	1499.2	1499.2
35°	1454.5	1444.4	1448.9	1450.0	1450.0
37.5°	1401.9	1391.8	1395.2	1397.4	1397.4
40°	1345.9	1337.0	1339.2	1341.5	1340.3
42.5°	1285.5	1278.8	1279.9	1282.2	1282.2
45°	1224.0	1218.4	1218.4	1220.6	1220.6
47.5°	1161.3	1155.7	1153.5	1155.7	1155.7
50°	1093.1	1087.5	1085.3	1087.5	1087.5
52.5°	1021.5	1015.9	1015.9	1015.9	1017.0
55°	947.6	942.0	939.8	942.0	943.2
57.5°	869.3	867.1	863.7	864.8	861.5
60°	785.4	785.4	782.1	784.3	782.1
62.5°	703.7	706.0	702.6	702.6	700.4
65°	619.8	622.1	618.7	618.7	616.5
67.5°	533.7	537.0	532.6	532.6	530.3
70°	444.2	450.9	446.4	447.5	445.3
72.5°	363.6	367.0	362.5	362.5	360.3
75°	283.1	285.3	280.8	281.9	278.6
77.5°	203.6	207.0	202.5	203.6	202.5
80°	136.5	137.6	134.3	135.4	133.1
82.5°	79.4	80.6	79.4	78.3	77.2
85°	35.8	36.9	35.8	35.8	34.7
87.5°	9.0	9.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)