

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: P973534

Luminaire Tested: FLR2-22-25-L930-CP187

Issue Date: 3/13/2025

**Test Information**

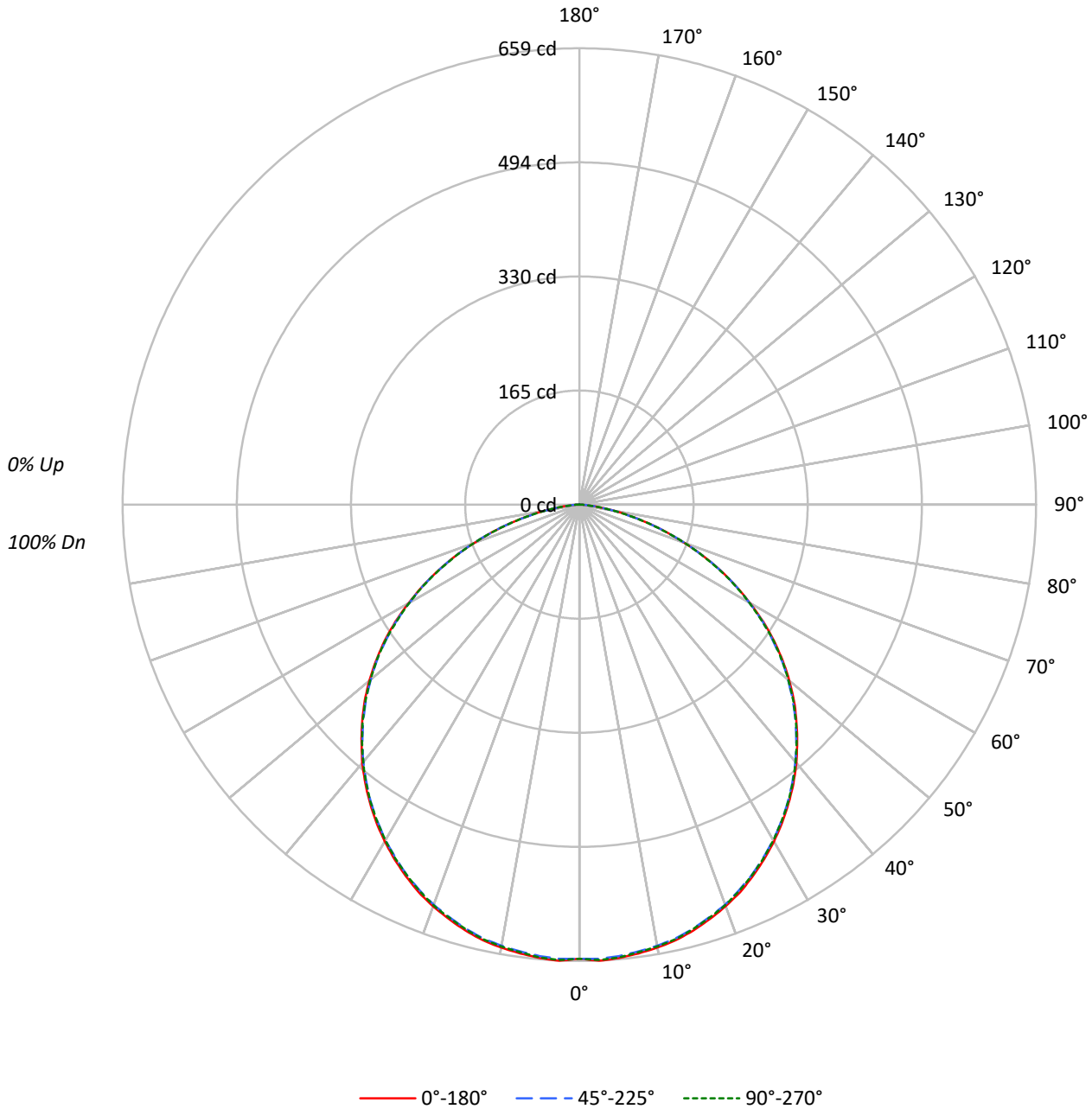
Test Method: LM-79-2019  
Report Number: P973534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25-L930-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1833.6 lumens  
Efficiency: N/A  
Efficacy: 97.0 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): 18.9  
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

TEST NUMBER: P973534  
CATALOG NUMBER: FLR2-22-25-L930-CP187

### 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																				
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°	1764	1764	1764
5°	1776	1768	1773
10°	1775	1767	1771
15°	1774	1766	1768
20°	1767	1761	1763
25°	1758	1751	1752
30°	1745	1738	1739
35°	1730	1723	1724
40°	1711	1703	1704
45°	1686	1678	1681
50°	1657	1644	1648
55°	1609	1596	1602
60°	1530	1524	1524
65°	1429	1426	1421
70°	1265	1271	1268
75°	1066	1057	1048
80°	766	753	747
85°	401	401	389

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1686 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	3.4
10°-20°	178.6	9.7
20°-30°	271.3	14.8
30°-40°	328.0	17.9
40°-50°	340.4	18.6
50°-60°	304.3	16.6
60°-70°	221.3	12.1
70°-80°	108.8	5.9
80°-90°	18.9	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°	512.0	27.9
0°-40°	839.9	45.8
0°-60°	1484.7	81.0
0°-90°	1833.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	657	650	654	652	656	62
15°	637	629	634	632	635	180
25°	592	586	590	588	590	273
35°	526	523	524	525	525	329
45°	443	441	441	442	442	342
55°	343	341	340	341	341	306
65°	224	225	224	224	223	221
75°	102	103	102	102	101	109
85°	13	13	13	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	655.7	655.7	655.7	655.7	655.7
2.5°	659.3	651.6	656.5	653.7	658.1
5°	657.3	649.6	654.5	652.0	656.5
7.5°	653.7	646.0	650.8	648.4	652.0
10°	649.6	641.5	646.8	644.3	648.0
12.5°	644.3	636.6	641.5	639.5	642.7
15°	636.6	629.4	633.8	632.2	634.6
17.5°	627.3	620.0	624.5	623.3	625.3
20°	617.2	610.3	614.8	613.6	615.6
22.5°	605.9	598.6	602.6	601.8	603.4
25°	592.1	585.6	589.7	588.4	590.1
27.5°	577.5	571.4	574.7	574.7	575.5
30°	561.7	556.0	559.3	559.3	559.7
32.5°	544.7	540.3	542.3	542.7	542.7
35°	526.5	522.8	524.5	524.9	524.9
37.5°	507.5	503.8	505.0	505.8	505.8
40°	487.2	484.0	484.8	485.6	485.2
42.5°	465.3	462.9	463.3	464.1	464.1
45°	443.1	441.0	441.0	441.8	441.8
47.5°	420.4	418.4	417.5	418.4	418.4
50°	395.7	393.6	392.8	393.6	393.6
52.5°	369.8	367.7	367.7	367.7	368.1
55°	343.0	341.0	340.2	341.0	341.4
57.5°	314.7	313.9	312.7	313.1	311.8
60°	284.3	284.3	283.1	283.9	283.1
62.5°	254.7	255.5	254.3	254.3	253.5
65°	224.4	225.2	224.0	224.0	223.1
67.5°	193.2	194.4	192.8	192.8	192.0
70°	160.8	163.2	161.6	162.0	161.2
72.5°	131.6	132.8	131.2	131.2	130.4
75°	102.5	103.3	101.7	102.1	100.8
77.5°	73.7	74.9	73.3	73.7	73.3
80°	49.4	49.8	48.6	49.0	48.2
82.5°	28.8	29.2	28.8	28.3	27.9
85°	13.0	13.4	13.0	13.0	12.6
87.5°	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)