

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: P973602

Luminaire Tested: FLR2-22-25-L935-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973602  
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-L935-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

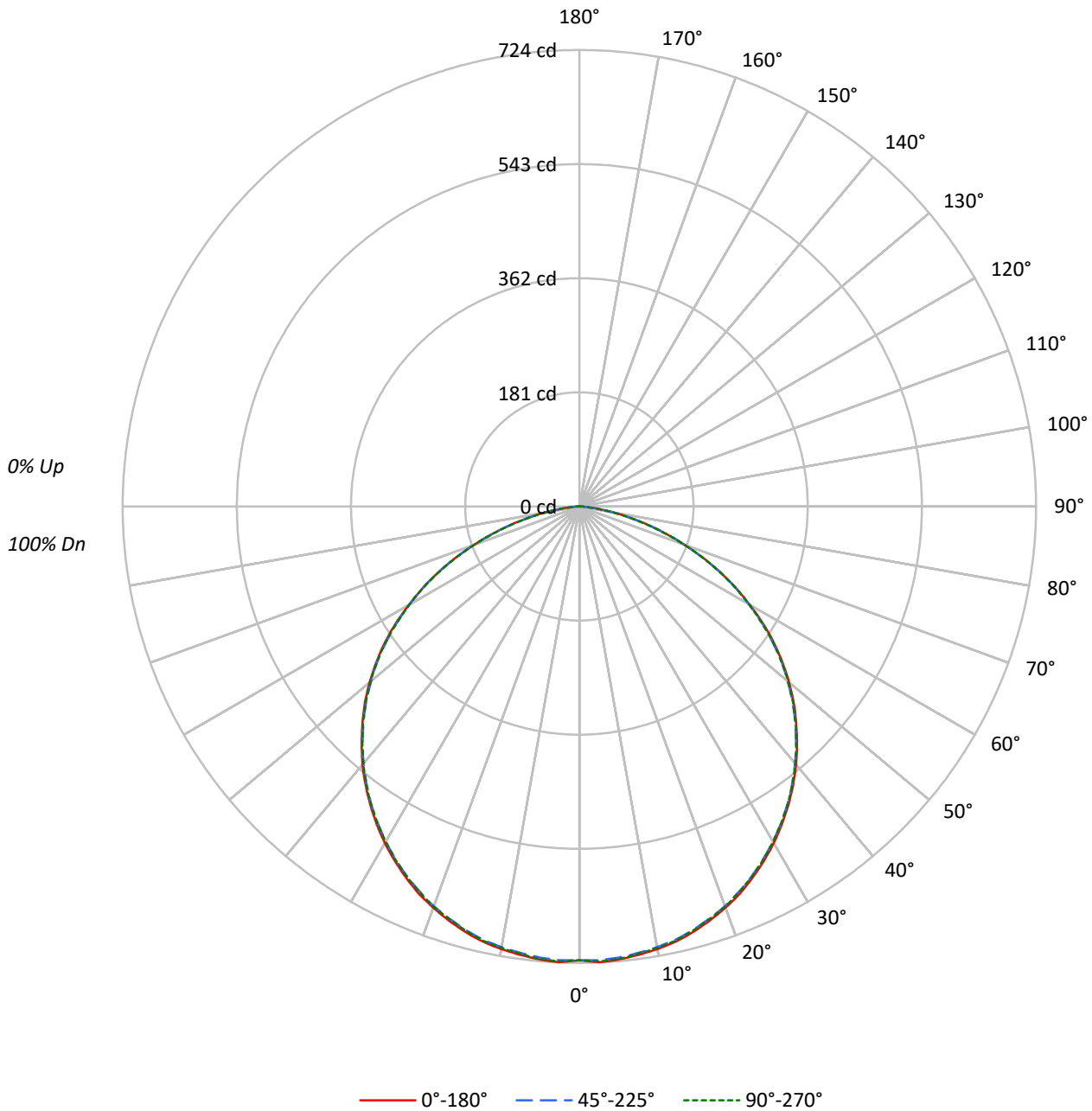
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2012.3 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

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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																				
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°	1936	1936	1936
5°	1949	1940	1946
10°	1948	1940	1943
15°	1947	1938	1940
20°	1940	1932	1935
25°	1929	1921	1923
30°	1916	1907	1908
35°	1898	1891	1892
40°	1878	1869	1871
45°	1850	1842	1845
50°	1818	1805	1809
55°	1766	1751	1758
60°	1679	1672	1672
65°	1568	1565	1559
70°	1388	1395	1392
75°	1169	1160	1151
80°	840	826	820
85°	438	438	426

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1850 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	3.4
10°-20°	196.0	9.7
20°-30°	297.8	14.8
30°-40°	359.9	17.9
40°-50°	373.6	18.6
50°-60°	334.0	16.6
60°-70°	242.8	12.1
70°-80°	119.4	5.9
80°-90°	20.7	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°	561.9	27.9
0°-40°	921.8	45.8
0°-60°	1629.3	81.0
0°-90°	2012.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	721	713	718	716	720	69
15°	699	691	696	694	696	197
25°	650	643	647	646	648	300
35°	578	574	576	576	576	361
45°	486	484	484	485	485	375
55°	376	374	373	374	375	336
65°	246	247	246	246	245	243
75°	112	113	112	112	111	119
85°	14	15	14	14	14	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	719.6	719.6	719.6	719.6	719.6
2.5°	723.6	715.1	720.5	717.4	722.2
5°	721.4	712.9	718.2	715.6	720.5
7.5°	717.4	708.9	714.2	711.6	715.6
10°	712.9	704.0	709.8	707.1	711.1
12.5°	707.1	698.7	704.0	701.8	705.4
15°	698.7	690.7	695.6	693.8	696.5
17.5°	688.5	680.5	685.4	684.0	686.2
20°	677.4	669.8	674.7	673.4	675.6
22.5°	664.9	656.9	661.4	660.5	662.2
25°	649.8	642.7	647.1	645.8	647.6
27.5°	633.8	627.1	630.7	630.7	631.6
30°	616.5	610.2	613.8	613.8	614.2
32.5°	597.8	592.9	595.1	595.6	595.6
35°	577.8	573.8	575.6	576.0	576.0
37.5°	556.9	552.9	554.2	555.1	555.1
40°	534.7	531.1	532.0	532.9	532.5
42.5°	510.7	508.0	508.5	509.3	509.3
45°	486.2	484.0	484.0	484.9	484.9
47.5°	461.3	459.1	458.2	459.1	459.1
50°	434.2	432.0	431.1	432.0	432.0
52.5°	405.8	403.6	403.6	403.6	404.0
55°	376.5	374.2	373.3	374.2	374.7
57.5°	345.3	344.5	343.1	343.6	342.2
60°	312.0	312.0	310.7	311.6	310.7
62.5°	279.6	280.5	279.1	279.1	278.2
65°	246.2	247.1	245.8	245.8	244.9
67.5°	212.0	213.3	211.6	211.6	210.7
70°	176.4	179.1	177.3	177.8	176.9
72.5°	144.4	145.8	144.0	144.0	143.1
75°	112.4	113.3	111.6	112.0	110.7
77.5°	80.9	82.2	80.4	80.9	80.4
80°	54.2	54.7	53.3	53.8	52.9
82.5°	31.6	32.0	31.6	31.1	30.7
85°	14.2	14.7	14.2	14.2	13.8
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)