

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: P973794

Luminaire Tested: FLR2-22-25HE-L930-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973794  
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: FLR2-22-25HE-L930-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

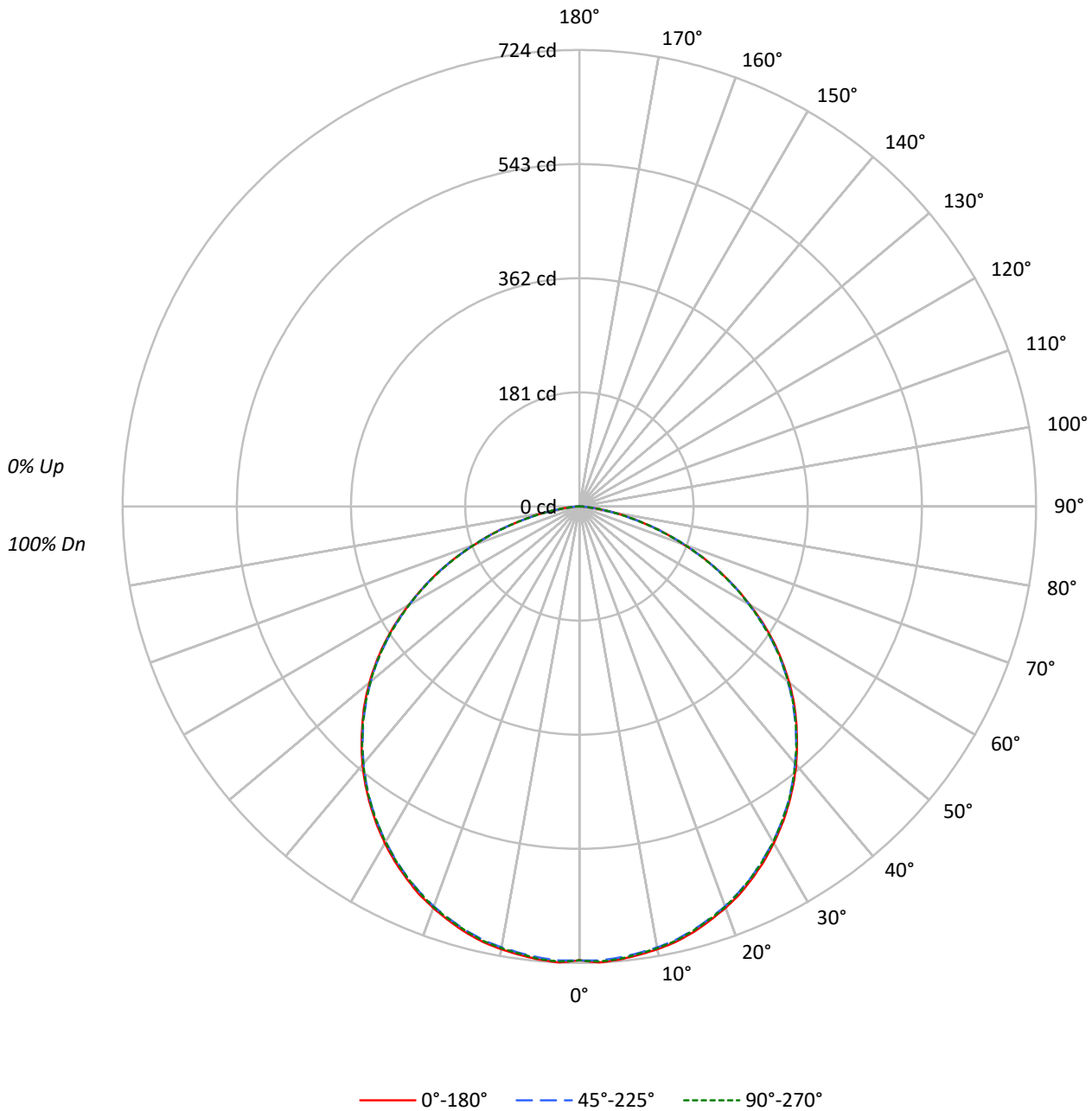
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2013.1 lumens  
Efficiency: N/A  
Efficacy: 104.9 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): 19.2  
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									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	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°	1937	1937	1937
5°	1949	1941	1947
10°	1949	1940	1944
15°	1947	1939	1941
20°	1940	1933	1936
25°	1930	1922	1923
30°	1916	1908	1909
35°	1899	1892	1893
40°	1879	1870	1871
45°	1851	1843	1846
50°	1819	1806	1809
55°	1767	1752	1758
60°	1680	1673	1673
65°	1568	1566	1560
70°	1389	1396	1393
75°	1170	1160	1151
80°	840	828	820
85°	438	438	426

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1851 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	3.4
10°-20°	196.0	9.7
20°-30°	297.9	14.8
30°-40°	360.1	17.9
40°-50°	373.7	18.6
50°-60°	334.1	16.6
60°-70°	242.9	12.1
70°-80°	119.5	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°	562.1	27.9
0°-40°	922.2	45.8
0°-60°	1630.0	81.0
0°-90°	2013.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	722	713	718	716	721	69
15°	699	691	696	694	697	197
25°	650	643	647	646	648	300
35°	578	574	576	576	576	362
45°	486	484	484	485	485	375
55°	377	374	374	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°	719.9	719.9	719.9	719.9	719.9
2.5°	723.9	715.4	720.8	717.6	722.5
5°	721.6	713.2	718.5	715.9	720.8
7.5°	717.6	709.2	714.5	711.9	715.9
10°	713.2	704.3	710.1	707.4	711.4
12.5°	707.4	699.0	704.3	702.1	705.6
15°	699.0	691.0	695.9	694.1	696.7
17.5°	688.7	680.7	685.6	684.3	686.5
20°	677.6	670.1	675.0	673.6	675.9
22.5°	665.2	657.2	661.6	660.7	662.5
25°	650.1	642.9	647.4	646.1	647.8
27.5°	634.1	627.4	630.9	630.9	631.8
30°	616.7	610.5	614.0	614.0	614.5
32.5°	598.0	593.1	595.4	595.8	595.8
35°	578.0	574.0	575.8	576.3	576.3
37.5°	557.1	553.1	554.5	555.4	555.4
40°	534.9	531.3	532.2	533.1	532.7
42.5°	510.9	508.2	508.7	509.6	509.6
45°	486.4	484.2	484.2	485.1	485.1
47.5°	461.5	459.3	458.4	459.3	459.3
50°	434.4	432.2	431.3	432.2	432.2
52.5°	406.0	403.7	403.7	403.7	404.2
55°	376.6	374.4	373.5	374.4	374.8
57.5°	345.5	344.6	343.3	343.7	342.4
60°	312.1	312.1	310.8	311.7	310.8
62.5°	279.7	280.6	279.2	279.2	278.3
65°	246.3	247.2	245.9	245.9	245.0
67.5°	212.1	213.4	211.6	211.6	210.8
70°	176.5	179.2	177.4	177.9	177.0
72.5°	144.5	145.8	144.1	144.1	143.2
75°	112.5	113.4	111.6	112.0	110.7
77.5°	80.9	82.3	80.5	80.9	80.5
80°	54.2	54.7	53.4	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)