

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: P973638

Luminaire Tested: FLR2-22-25-L940-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973638  
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-L940-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

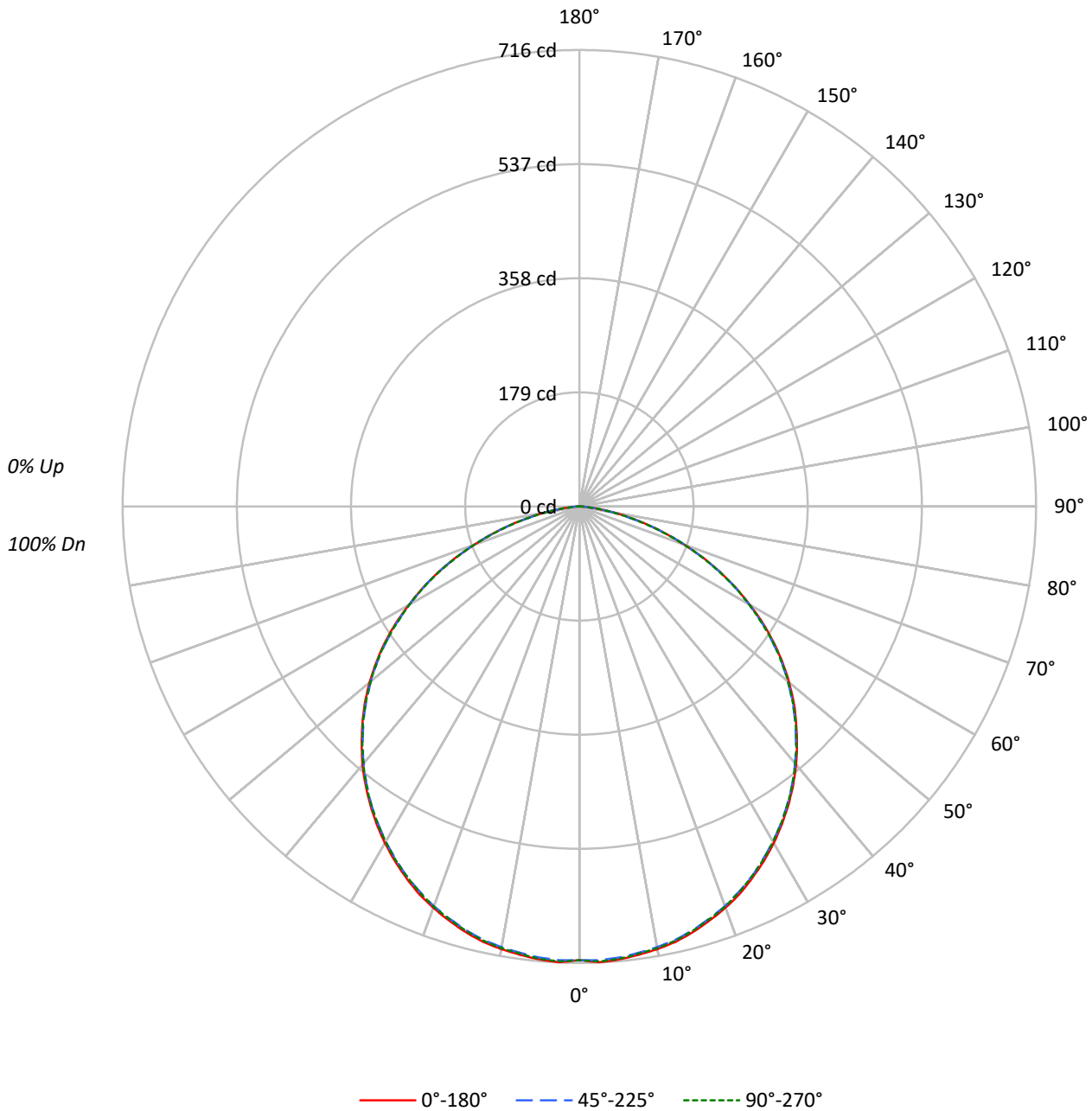
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1990.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 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						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°	1915	1915	1915
5°	1927	1919	1925
10°	1926	1918	1922
15°	1925	1916	1919
20°	1918	1911	1913
25°	1908	1900	1901
30°	1894	1886	1887
35°	1877	1870	1871
40°	1858	1848	1850
45°	1830	1822	1825
50°	1798	1785	1788
55°	1747	1732	1738
60°	1661	1653	1653
65°	1550	1548	1542
70°	1373	1380	1376
75°	1156	1147	1137
80°	831	817	810
85°	435	435	420

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1830 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.4
10°-20°	193.8	9.7
20°-30°	294.5	14.8
30°-40°	355.9	17.9
40°-50°	369.4	18.6
50°-60°	330.3	16.6
60°-70°	240.1	12.1
70°-80°	118.1	5.9
80°-90°	20.5	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°	555.6	27.9
0°-40°	911.6	45.8
0°-60°	1611.3	81.0
0°-90°	1990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	713	705	710	708	712	68
15°	691	683	688	686	689	195
25°	643	636	640	639	640	296
35°	571	567	569	570	570	357
45°	481	479	479	480	480	371
55°	372	370	369	370	370	332
65°	244	244	243	243	242	240
75°	111	112	110	111	109	118
85°	14	14	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°	711.6	711.6	711.6	711.6	711.6
2.5°	715.6	707.2	712.5	709.4	714.3
5°	713.4	705.0	710.3	707.7	712.5
7.5°	709.4	701.1	706.3	703.7	707.7
10°	705.0	696.2	701.9	699.3	703.3
12.5°	699.3	691.0	696.2	694.0	697.5
15°	691.0	683.0	687.9	686.1	688.8
17.5°	680.8	672.9	677.8	676.5	678.6
20°	669.9	662.4	667.2	665.9	668.1
22.5°	657.6	649.6	654.0	653.2	654.9
25°	642.6	635.6	640.0	638.7	640.4
27.5°	626.8	620.2	623.7	623.7	624.6
30°	609.6	603.5	607.0	607.0	607.4
32.5°	591.2	586.3	588.5	589.0	589.0
35°	571.4	567.4	569.2	569.6	569.6
37.5°	550.7	546.8	548.1	549.0	549.0
40°	528.8	525.3	526.1	527.0	526.6
42.5°	505.0	502.4	502.8	503.7	503.7
45°	480.9	478.7	478.7	479.5	479.5
47.5°	456.2	454.0	453.2	454.0	454.0
50°	429.4	427.2	426.4	427.2	427.2
52.5°	401.3	399.1	399.1	399.1	399.5
55°	372.3	370.1	369.2	370.1	370.5
57.5°	341.5	340.6	339.3	339.8	338.4
60°	308.6	308.6	307.2	308.1	307.2
62.5°	276.5	277.3	276.0	276.0	275.2
65°	243.5	244.4	243.1	243.1	242.2
67.5°	209.7	211.0	209.2	209.2	208.3
70°	174.5	177.1	175.4	175.8	174.9
72.5°	142.9	144.2	142.4	142.4	141.5
75°	111.2	112.1	110.3	110.8	109.4
77.5°	80.0	81.3	79.6	80.0	79.6
80°	53.6	54.1	52.7	53.2	52.3
82.5°	31.2	31.6	31.2	30.8	30.3
85°	14.1	14.5	14.1	14.1	13.6
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)