

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: P974040

Luminaire Tested: FLR2-22-25HE-L950-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974040  
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-L950-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

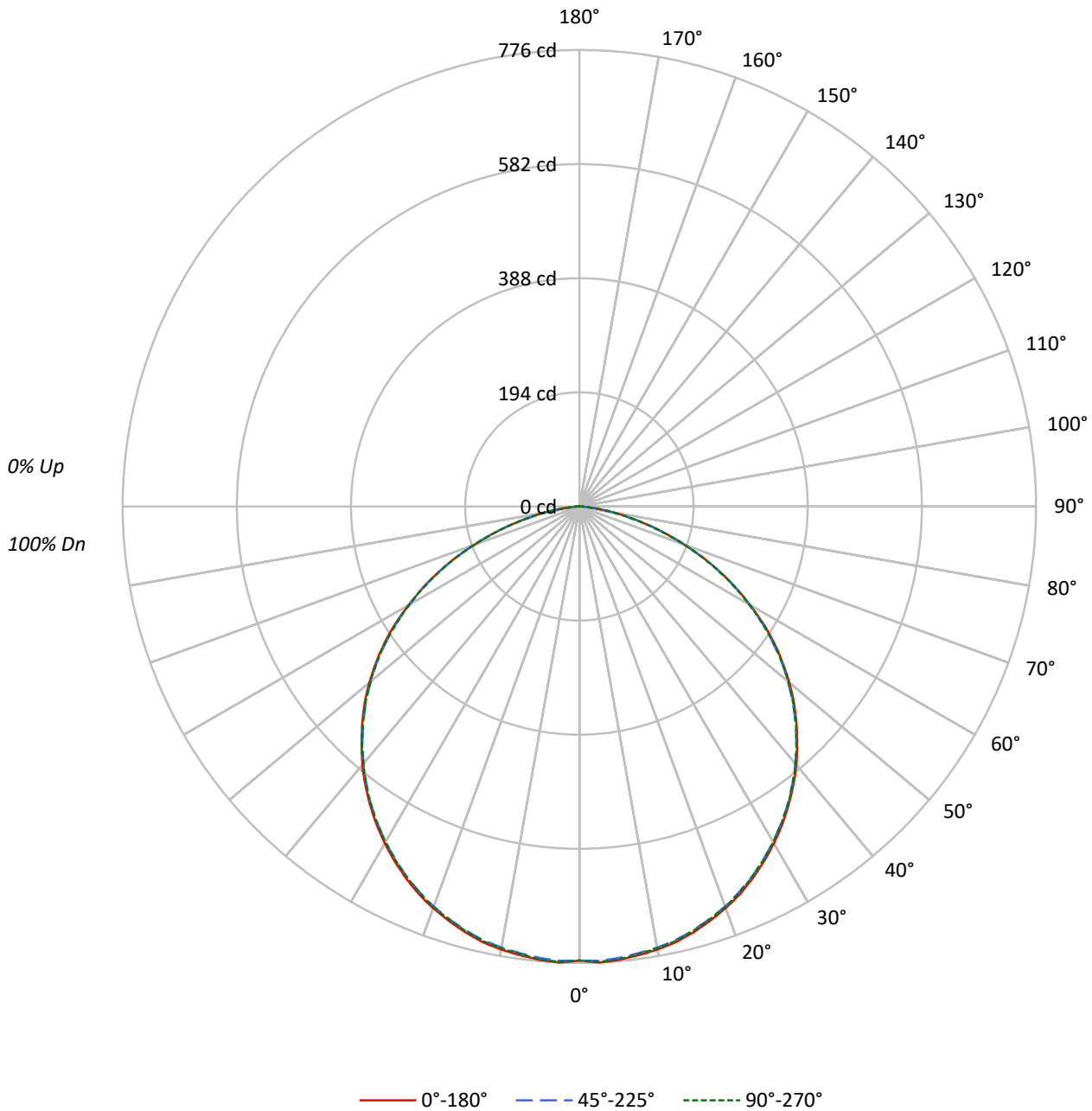
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2158.7 lumens  
Efficiency: N/A  
Efficacy: 112.4 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 (A<sub>in</sub>): 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°	2077	2077	2077
5°	2090	2081	2088
10°	2090	2081	2084
15°	2088	2079	2081
20°	2081	2073	2075
25°	2070	2061	2063
30°	2055	2046	2047
35°	2036	2028	2030
40°	2015	2005	2007
45°	1985	1976	1980
50°	1950	1936	1940
55°	1894	1879	1886
60°	1801	1794	1794
65°	1682	1679	1673
70°	1489	1496	1493
75°	1254	1245	1234
80°	902	886	879
85°	472	472	457

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1985 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	3.4
10°-20°	210.2	9.7
20°-30°	319.4	14.8
30°-40°	386.1	17.9
40°-50°	400.8	18.6
50°-60°	358.3	16.6
60°-70°	260.5	12.1
70°-80°	128.1	5.9
80°-90°	22.2	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°	602.7	27.9
0°-40°	988.8	45.8
0°-60°	1747.9	81.0
0°-90°	2158.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	774	765	770	768	773	74
15°	750	741	746	744	747	211
25°	697	689	694	693	695	321
35°	620	616	617	618	618	388
45°	522	519	519	520	520	402
55°	404	401	400	401	402	360
65°	264	265	264	264	263	260
75°	121	122	120	120	119	128
85°	15	16	15	15	15	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.9	771.9	771.9	771.9	771.9
2.5°	776.2	767.1	772.9	769.5	774.8
5°	773.8	764.8	770.5	767.6	772.9
7.5°	769.5	760.5	766.2	763.3	767.6
10°	764.8	755.2	761.4	758.6	762.8
12.5°	758.6	749.5	755.2	752.8	756.7
15°	749.5	740.9	746.2	744.3	747.1
17.5°	738.5	730.0	735.2	733.8	736.1
20°	726.6	718.5	723.8	722.3	724.7
22.5°	713.3	704.7	709.5	708.5	710.4
25°	697.1	689.4	694.2	692.8	694.7
27.5°	679.9	672.7	676.6	676.6	677.5
30°	661.3	654.6	658.4	658.4	658.9
32.5°	641.3	636.0	638.4	638.9	638.9
35°	619.8	615.5	617.4	617.9	617.9
37.5°	597.4	593.1	594.5	595.5	595.5
40°	573.6	569.8	570.7	571.7	571.2
42.5°	547.8	545.0	545.4	546.4	546.4
45°	521.6	519.2	519.2	520.2	520.2
47.5°	494.9	492.5	491.6	492.5	492.5
50°	465.8	463.4	462.5	463.4	463.4
52.5°	435.3	432.9	432.9	432.9	433.4
55°	403.8	401.4	400.5	401.4	401.9
57.5°	370.5	369.5	368.1	368.6	367.1
60°	334.7	334.7	333.3	334.2	333.3
62.5°	299.9	300.8	299.4	299.4	298.5
65°	264.1	265.1	263.7	263.7	262.7
67.5°	227.4	228.9	226.9	226.9	226.0
70°	189.3	192.1	190.2	190.7	189.8
72.5°	155.0	156.4	154.5	154.5	153.5
75°	120.6	121.6	119.7	120.1	118.7
77.5°	86.8	88.2	86.3	86.8	86.3
80°	58.2	58.6	57.2	57.7	56.7
82.5°	33.9	34.3	33.9	33.4	32.9
85°	15.3	15.7	15.3	15.3	14.8
87.5°	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)