

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: P974016

Luminaire Tested: FLR2-22-25HE-L950-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974016  
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-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

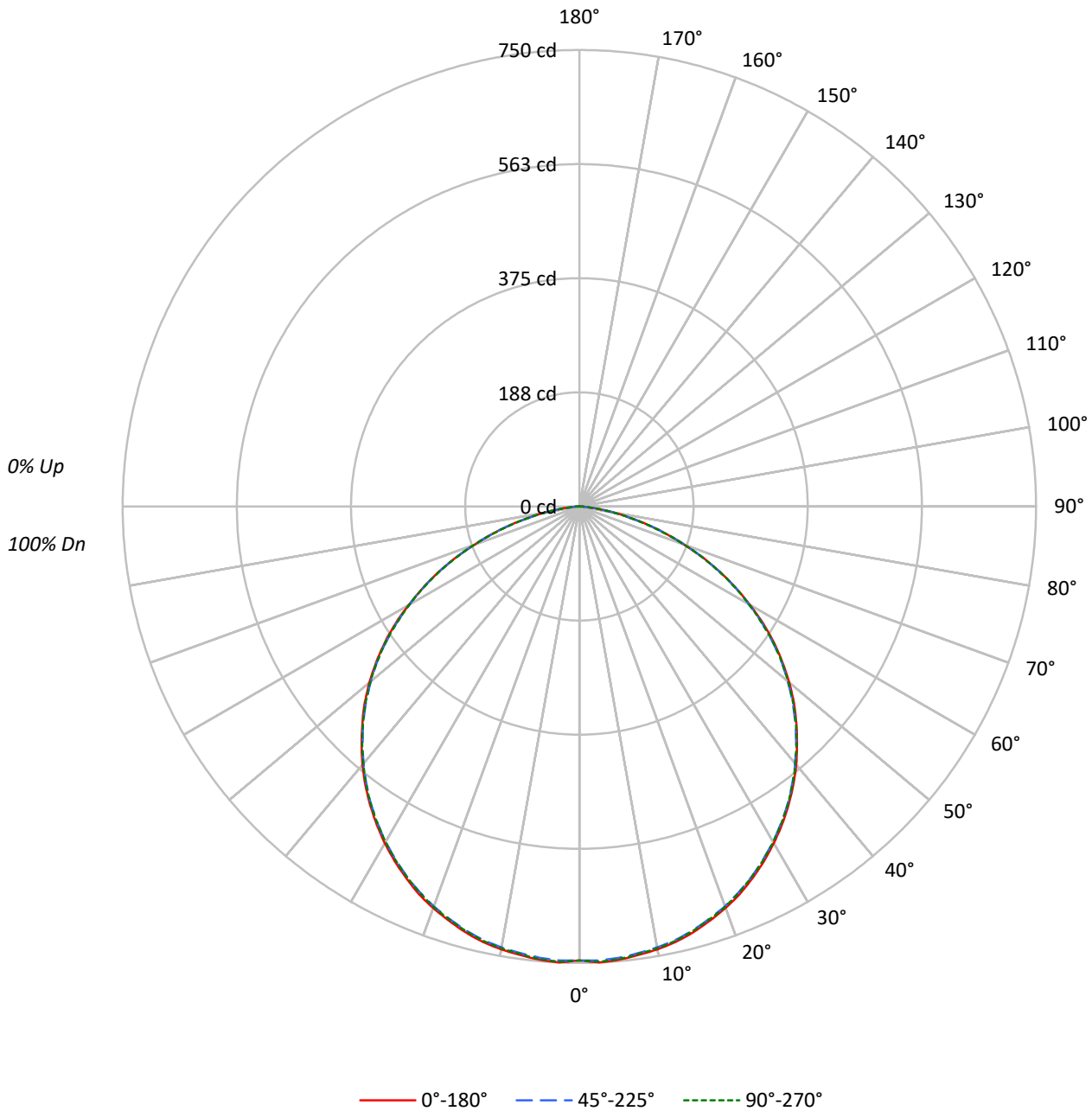
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2085.7 lumens  
Efficiency: N/A  
Efficacy: 108.6 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				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	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°	2007	2007	2007
5°	2020	2011	2017
10°	2019	2010	2014
15°	2018	2008	2011
20°	2011	2003	2005
25°	2000	1991	1993
30°	1985	1977	1978
35°	1967	1960	1961
40°	1947	1937	1939
45°	1918	1909	1913
50°	1884	1870	1875
55°	1831	1816	1822
60°	1741	1733	1733
65°	1625	1622	1616
70°	1439	1446	1442
75°	1211	1202	1193
80°	871	857	849
85°	454	454	442

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1918 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	3.4
10°-20°	203.1	9.7
20°-30°	308.6	14.8
30°-40°	373.0	17.9
40°-50°	387.2	18.6
50°-60°	346.2	16.6
60°-70°	251.7	12.1
70°-80°	123.8	5.9
80°-90°	21.5	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°	582.4	27.9
0°-40°	955.4	45.8
0°-60°	1688.8	81.0
0°-90°	2085.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2085.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	748	739	744	742	747	71
15°	724	716	721	719	722	204
25°	674	666	671	669	671	310
35°	599	595	597	597	597	375
45°	504	502	502	503	503	389
55°	390	388	387	388	388	348
65°	255	256	255	255	254	252
75°	116	118	116	116	115	124
85°	15	15	15	15	14	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	745.8	745.8	745.8	745.8	745.8
2.5°	750.0	741.2	746.7	743.5	748.6
5°	747.7	738.9	744.4	741.7	746.7
7.5°	743.5	734.8	740.3	737.5	741.7
10°	738.9	729.7	735.7	732.9	737.1
12.5°	732.9	724.2	729.7	727.4	731.1
15°	724.2	715.9	720.9	719.1	721.9
17.5°	713.6	705.3	710.3	709.0	711.3
20°	702.1	694.2	699.3	697.9	700.2
22.5°	689.2	680.9	685.5	684.5	686.4
25°	673.5	666.1	670.7	669.3	671.2
27.5°	656.9	650.0	653.7	653.7	654.6
30°	638.9	632.5	636.2	636.2	636.6
32.5°	619.6	614.5	616.8	617.3	617.3
35°	598.9	594.7	596.6	597.0	597.0
37.5°	577.2	573.1	574.5	575.4	575.4
40°	554.2	550.5	551.4	552.3	551.9
42.5°	529.3	526.5	527.0	527.9	527.9
45°	504.0	501.7	501.7	502.6	502.6
47.5°	478.2	475.9	474.9	475.9	475.9
50°	450.1	447.8	446.8	447.8	447.8
52.5°	420.6	418.3	418.3	418.3	418.7
55°	390.2	387.9	387.0	387.9	388.3
57.5°	357.9	357.0	355.6	356.1	354.7
60°	323.4	323.4	322.0	322.9	322.0
62.5°	289.8	290.7	289.3	289.3	288.4
65°	255.2	256.1	254.7	254.7	253.8
67.5°	219.7	221.1	219.3	219.3	218.4
70°	182.9	185.6	183.8	184.3	183.3
72.5°	149.7	151.1	149.3	149.3	148.3
75°	116.5	117.5	115.6	116.1	114.7
77.5°	83.8	85.2	83.4	83.8	83.4
80°	56.2	56.7	55.3	55.7	54.8
82.5°	32.7	33.2	32.7	32.2	31.8
85°	14.7	15.2	14.7	14.7	14.3
87.5°	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)