

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: P973668

Luminaire Tested: FLR2-22-45-L850-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973668  
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: FLR2-22-45-L850-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

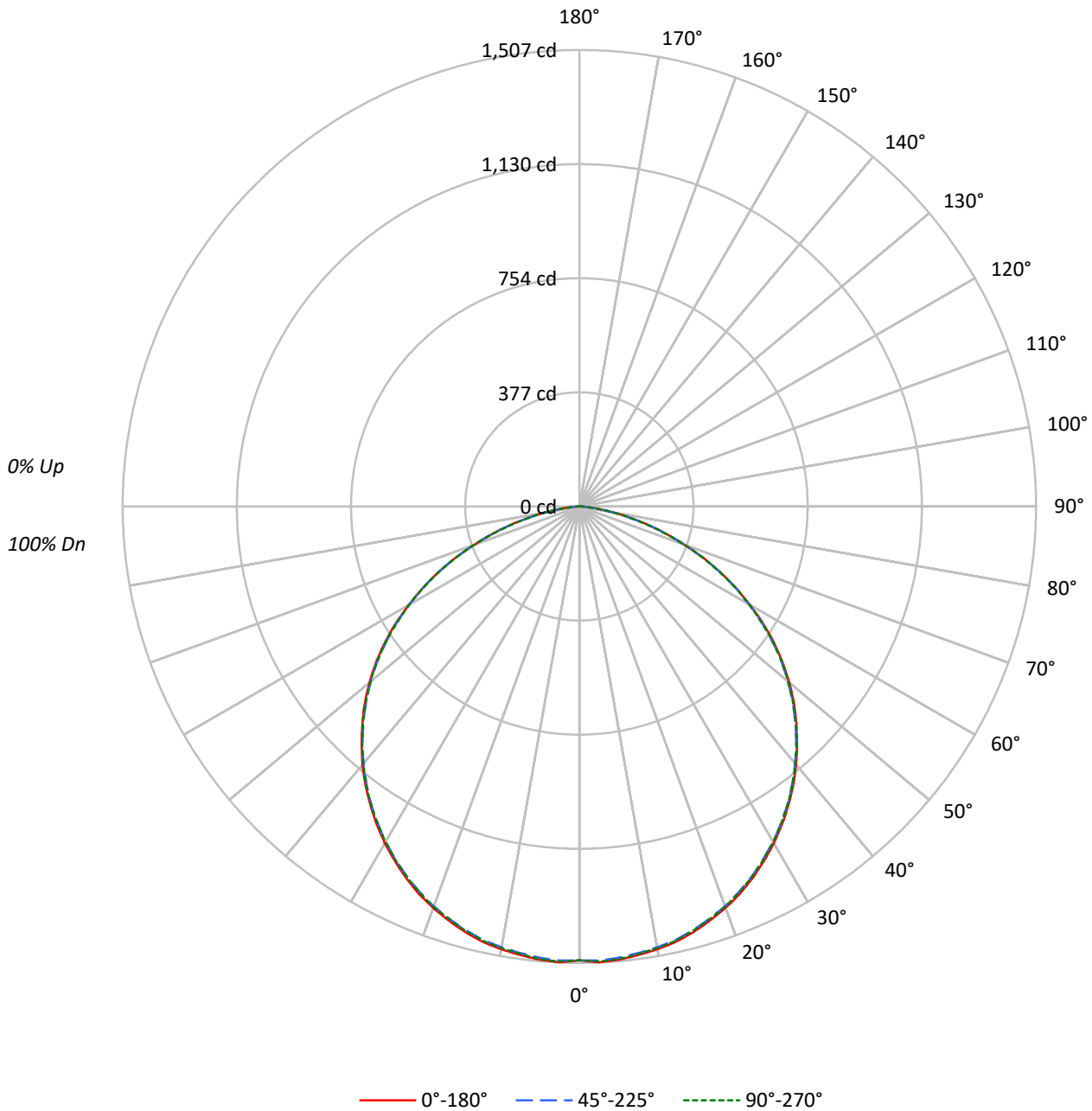
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4189.9 lumens  
Efficiency: N/A  
Efficacy: 116.1 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): 36.1  
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°	4032	4032	4032
5°	4057	4040	4052
10°	4056	4038	4046
15°	4053	4035	4040
20°	4039	4023	4028
25°	4017	4001	4003
30°	3988	3971	3974
35°	3952	3937	3940
40°	3911	3891	3895
45°	3853	3835	3842
50°	3785	3758	3766
55°	3677	3647	3660
60°	3496	3482	3482
65°	3265	3259	3247
70°	2891	2905	2898
75°	2434	2415	2396
80°	1750	1722	1706
85°	914	914	886

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3853 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.9	3.4
10°-20°	408.0	9.7
20°-30°	620.0	14.8
30°-40°	749.4	17.9
40°-50°	777.9	18.6
50°-60°	695.4	16.6
60°-70°	505.6	12.1
70°-80°	248.6	5.9
80°-90°	43.1	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°	1169.9	27.9
0°-40°	1919.3	45.8
0°-60°	3392.5	81.0
0°-90°	4189.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1502	1484	1496	1490	1500	143
15°	1455	1438	1448	1445	1450	411
25°	1353	1338	1347	1345	1348	624
35°	1203	1195	1198	1199	1199	753
45°	1012	1008	1008	1010	1010	781
55°	784	779	777	779	780	699
65°	513	514	512	512	510	506
75°	234	236	232	233	230	249
85°	30	30	30	30	29	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1506.6	1489.0	1500.1	1493.6	1503.8
5°	1502.0	1484.4	1495.5	1489.9	1500.1
7.5°	1493.6	1476.0	1487.1	1481.6	1489.9
10°	1484.4	1465.9	1477.9	1472.3	1480.7
12.5°	1472.3	1454.8	1465.9	1461.2	1468.6
15°	1454.8	1438.1	1448.3	1444.6	1450.1
17.5°	1433.5	1416.8	1427.0	1424.2	1428.8
20°	1410.3	1394.6	1404.8	1402.0	1406.6
22.5°	1384.4	1367.8	1377.0	1375.2	1378.9
25°	1353.0	1338.2	1347.4	1344.6	1348.3
27.5°	1319.6	1305.8	1313.2	1313.2	1315.0
30°	1283.6	1270.6	1278.0	1278.0	1278.9
32.5°	1244.7	1234.5	1239.1	1240.1	1240.1
35°	1203.0	1194.7	1198.4	1199.3	1199.3
37.5°	1159.5	1151.2	1154.0	1155.8	1155.8
40°	1113.3	1105.9	1107.7	1109.6	1108.7
42.5°	1063.3	1057.8	1058.7	1060.5	1060.5
45°	1012.4	1007.8	1007.8	1009.6	1009.6
47.5°	960.6	956.0	954.1	956.0	956.0
50°	904.1	899.5	897.7	899.5	899.5
52.5°	844.9	840.3	840.3	840.3	841.2
55°	783.8	779.2	777.4	779.2	780.1
57.5°	719.0	717.2	714.4	715.3	712.6
60°	649.6	649.6	646.9	648.7	646.9
62.5°	582.1	583.9	581.2	581.2	579.3
65°	512.7	514.5	511.8	511.8	509.9
67.5°	441.4	444.2	440.5	440.5	438.6
70°	367.4	372.9	369.2	370.2	368.3
72.5°	300.8	303.5	299.8	299.8	298.0
75°	234.1	236.0	232.3	233.2	230.4
77.5°	168.4	171.2	167.5	168.4	167.5
80°	112.9	113.8	111.1	112.0	110.1
82.5°	65.7	66.6	65.7	64.8	63.9
85°	29.6	30.5	29.6	29.6	28.7
87.5°	7.4	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)