

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: P974427

Luminaire Tested: FLR2-24-35-L850-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-35-L850-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L850-CP375  
Ballast/Driver: -

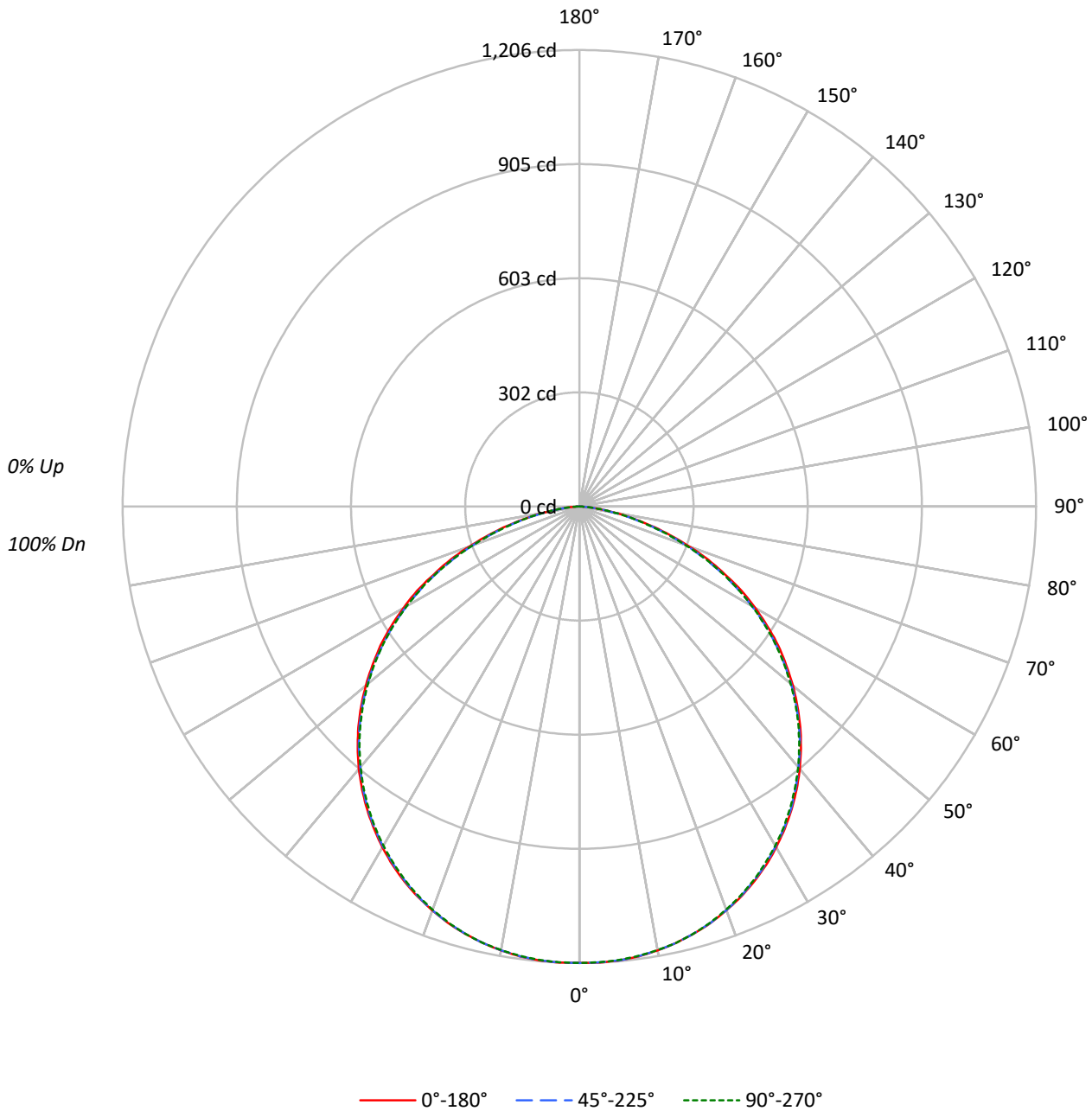
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3409.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.4  
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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1623	1623	1623
5°	1626	1626	1625
10°	1627	1627	1626
15°	1628	1627	1627
20°	1626	1625	1623
25°	1623	1620	1617
30°	1616	1611	1608
35°	1605	1601	1595
40°	1591	1581	1579
45°	1570	1561	1556
50°	1541	1529	1525
55°	1505	1483	1481
60°	1442	1416	1416
65°	1349	1317	1321
70°	1214	1177	1173
75°	1019	979	974
80°	745	707	738
85°	421	387	394

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1570 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	3.4
10°-20°	329.8	9.7
20°-30°	502.9	14.8
30°-40°	609.3	17.9
40°-50°	632.9	18.6
50°-60°	566.2	16.6
60°-70°	412.6	12.1
70°-80°	204.4	6.0
80°-90°	36.5	1.1
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°	947.2	27.8
0°-40°	1556.5	45.7
0°-60°	2755.5	80.8
0°-90°	3409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1204	1204	1204	1204	1203	115
15°	1168	1168	1168	1169	1168	330
25°	1093	1092	1091	1091	1089	504
35°	977	976	975	973	971	611
45°	825	824	821	819	818	636
55°	641	637	632	632	631	571
65°	424	420	414	416	415	420
75°	196	193	188	192	187	209
85°	27	25	25	26	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1206.2	1205.7	1205.7	1206.2	1205.3
5°	1204.0	1204.4	1204.0	1204.0	1203.1
7.5°	1199.2	1198.8	1198.4	1198.8	1197.5
10°	1191.0	1191.0	1190.6	1191.0	1190.2
12.5°	1181.1	1181.1	1181.1	1181.5	1181.1
15°	1168.5	1168.1	1168.1	1168.9	1168.1
17.5°	1153.8	1153.4	1153.4	1152.9	1152.1
20°	1135.6	1135.6	1135.2	1134.8	1133.5
22.5°	1116.1	1115.7	1114.4	1114.4	1112.7
25°	1093.2	1091.9	1091.0	1090.6	1089.3
27.5°	1068.1	1066.4	1065.1	1064.2	1062.9
30°	1040.0	1038.2	1036.9	1035.6	1034.8
32.5°	1009.7	1008.8	1006.7	1006.2	1004.5
35°	977.2	975.9	974.6	972.9	971.2
37.5°	942.6	941.3	938.3	937.4	936.1
40°	905.8	904.1	900.2	900.2	898.9
42.5°	866.4	864.7	862.1	860.4	859.5
45°	825.3	823.6	820.6	818.8	818.0
47.5°	781.6	780.3	776.8	775.5	774.2
50°	736.2	734.4	730.5	729.7	728.4
52.5°	688.6	687.7	682.5	682.1	680.8
55°	641.4	636.6	632.3	632.3	631.4
57.5°	589.4	586.0	580.4	580.4	579.5
60°	535.8	532.8	526.3	527.1	526.3
62.5°	483.4	476.9	470.9	473.5	471.3
65°	423.7	420.2	413.7	415.5	415.0
67.5°	369.2	362.7	356.6	360.1	358.3
70°	308.6	305.1	299.1	302.5	298.2
72.5°	251.4	248.4	242.4	246.3	241.9
75°	196.1	193.0	188.3	191.7	187.4
77.5°	143.7	141.5	137.2	140.7	141.5
80°	96.1	93.5	91.3	94.3	95.2
82.5°	56.3	54.5	53.7	54.1	56.3
85°	27.3	25.1	25.1	25.5	25.5
87.5°	7.4	6.5	7.4	7.8	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)