

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: P974371

Luminaire Tested: FLR2-24-35-L940-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974371  
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-L940-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L940-CP375  
Ballast/Driver: -

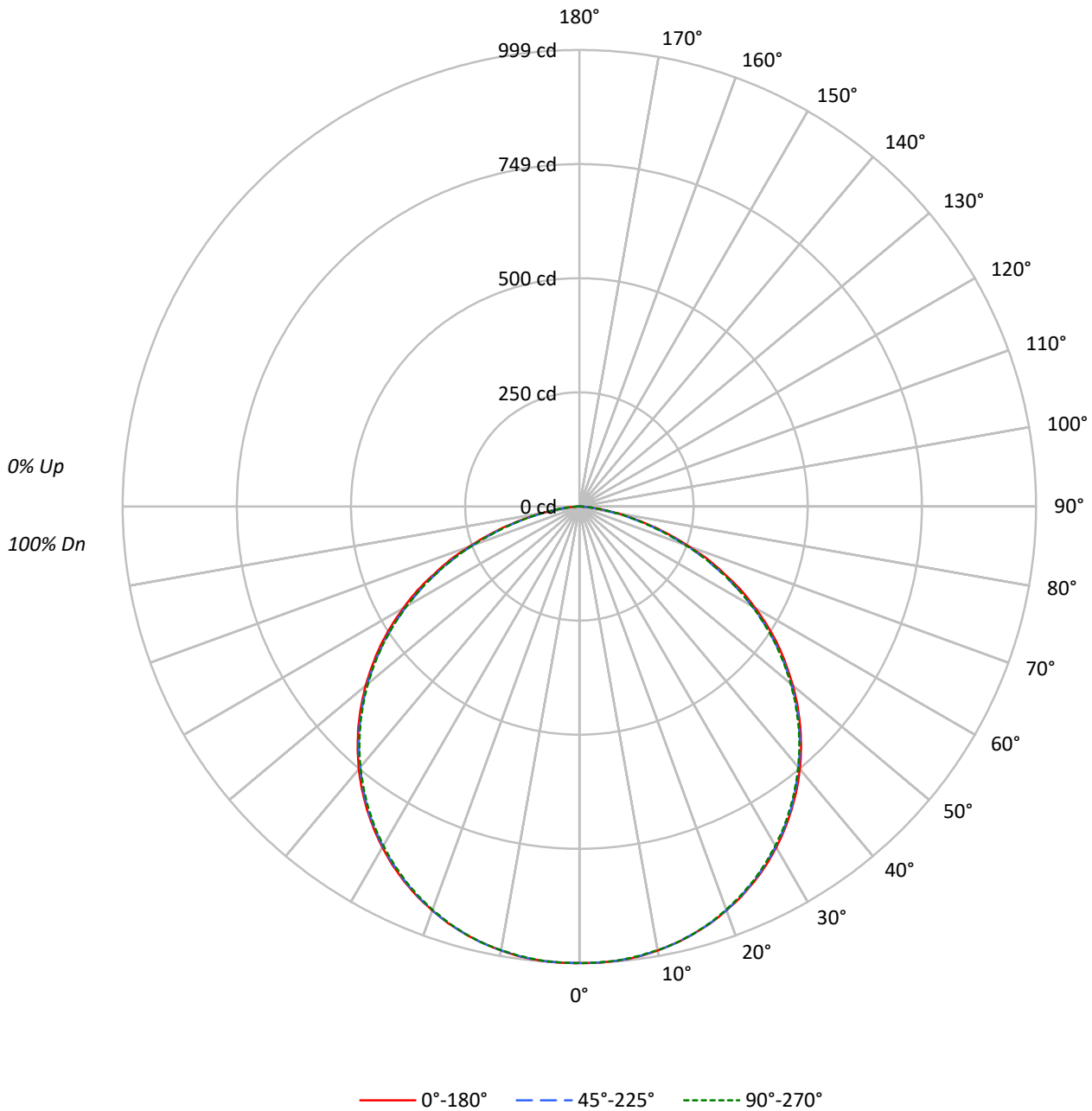
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2824.6 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

TEST NUMBER: P974371  
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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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

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

	0°	45°	90°
0°	1345	1345	1345
5°	1347	1347	1346
10°	1348	1348	1347
15°	1349	1348	1348
20°	1347	1347	1345
25°	1345	1342	1340
30°	1339	1335	1332
35°	1330	1326	1322
40°	1318	1310	1308
45°	1301	1294	1290
50°	1277	1267	1263
55°	1247	1229	1227
60°	1195	1173	1173
65°	1118	1091	1095
70°	1006	975	972
75°	844	811	807
80°	617	587	611
85°	349	321	327

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1301 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	3.4
10°-20°	273.3	9.7
20°-30°	416.7	14.8
30°-40°	504.8	17.9
40°-50°	524.4	18.6
50°-60°	469.1	16.6
60°-70°	341.9	12.1
70°-80°	169.3	6.0
80°-90°	30.3	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°	784.8	27.8
0°-40°	1289.6	45.7
0°-60°	2283.1	80.8
0°-90°	2824.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	998	998	998	998	997	95
15°	968	968	968	969	968	273
25°	906	905	904	904	903	417
35°	810	809	808	806	805	506
45°	684	682	680	678	678	527
55°	531	528	524	524	523	473
65°	351	348	343	344	344	348
75°	162	160	156	159	155	173
85°	23	21	21	21	21	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	999.4	999.4	999.4	999.4	999.4
2.5°	999.4	999.0	999.0	999.4	998.7
5°	997.6	998.0	997.6	997.6	996.9
7.5°	993.7	993.3	992.9	993.3	992.2
10°	986.8	986.8	986.5	986.8	986.1
12.5°	978.6	978.6	978.6	979.0	978.6
15°	968.2	967.8	967.8	968.6	967.8
17.5°	956.0	955.6	955.6	955.3	954.6
20°	940.9	940.9	940.6	940.2	939.1
22.5°	924.8	924.4	923.4	923.4	921.9
25°	905.8	904.7	904.0	903.6	902.6
27.5°	885.0	883.6	882.5	881.8	880.7
30°	861.7	860.3	859.2	858.1	857.4
32.5°	836.6	835.9	834.1	833.7	832.3
35°	809.7	808.6	807.5	806.1	804.7
37.5°	781.0	779.9	777.4	776.7	775.6
40°	750.5	749.1	745.9	745.9	744.8
42.5°	717.9	716.5	714.3	712.9	712.2
45°	683.8	682.4	679.9	678.5	677.7
47.5°	647.6	646.5	643.7	642.6	641.5
50°	610.0	608.5	605.3	604.6	603.5
52.5°	570.5	569.8	565.5	565.1	564.1
55°	531.4	527.5	523.9	523.9	523.2
57.5°	488.4	485.5	480.9	480.9	480.2
60°	443.9	441.4	436.0	436.8	436.0
62.5°	400.5	395.2	390.1	392.3	390.5
65°	351.1	348.2	342.8	344.2	343.9
67.5°	305.9	300.5	295.5	298.3	296.9
70°	255.7	252.8	247.8	250.7	247.1
72.5°	208.3	205.8	200.8	204.0	200.5
75°	162.4	159.9	156.0	158.9	155.3
77.5°	119.1	117.3	113.7	116.5	117.3
80°	79.6	77.5	75.7	78.2	78.9
82.5°	46.6	45.2	44.5	44.8	46.6
85°	22.6	20.8	20.8	21.2	21.2
87.5°	6.1	5.4	6.1	6.5	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)