

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: P974347

Luminaire Tested: FLR2-24-35-L940-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974347  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L940-CP125  
Ballast/Driver: -

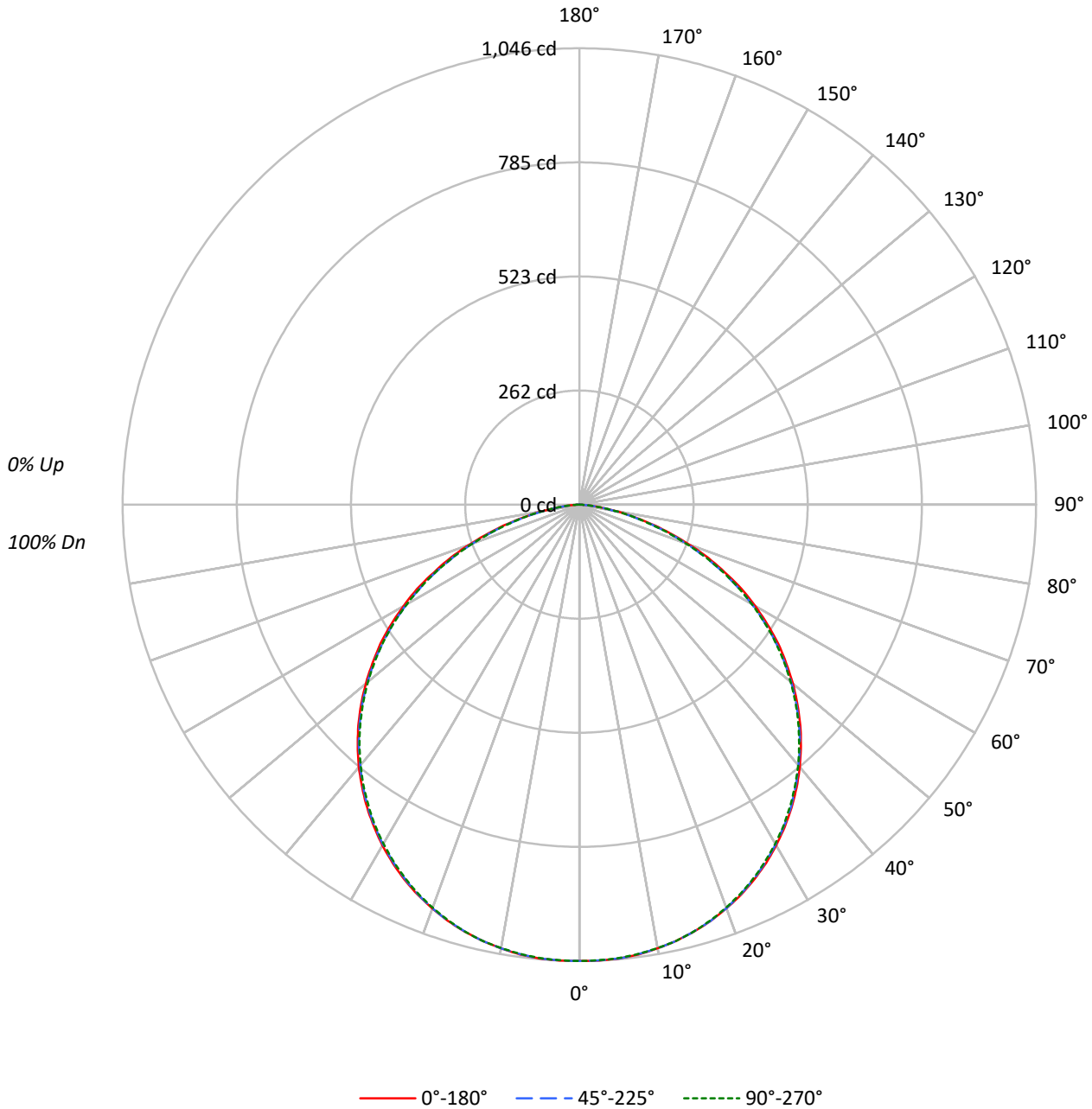
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2956.5 lumens  
Efficiency: N/A  
Efficacy: 104.1 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				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°	1408	1408	1408
5°	1410	1410	1409
10°	1411	1411	1410
15°	1412	1411	1411
20°	1410	1410	1407
25°	1408	1405	1402
30°	1401	1397	1394
35°	1392	1388	1384
40°	1380	1371	1369
45°	1362	1354	1350
50°	1337	1326	1322
55°	1305	1286	1285
60°	1250	1228	1228
65°	1170	1142	1146
70°	1053	1020	1017
75°	884	849	845
80°	645	614	640
85°	364	337	341

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1362 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.3	3.4
10°-20°	286.1	9.7
20°-30°	436.1	14.8
30°-40°	528.4	17.9
40°-50°	548.9	18.6
50°-60°	491.0	16.6
60°-70°	357.9	12.1
70°-80°	177.2	6.0
80°-90°	31.7	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°	821.5	27.8
0°-40°	1349.9	45.7
0°-60°	2389.8	80.8
0°-90°	2956.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1044	1045	1044	1044	1044	99
15°	1013	1013	1013	1014	1013	286
25°	948	947	946	946	945	437
35°	848	846	845	844	842	530
45°	716	714	712	710	709	552
55°	556	552	548	548	548	496
65°	368	364	359	360	360	364
75°	170	167	163	166	162	181
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1046.1	1045.7	1045.7	1046.1	1045.3
5°	1044.2	1044.6	1044.2	1044.2	1043.5
7.5°	1040.1	1039.7	1039.3	1039.7	1038.6
10°	1032.9	1032.9	1032.6	1032.9	1032.2
12.5°	1024.3	1024.3	1024.3	1024.7	1024.3
15°	1013.4	1013.1	1013.1	1013.8	1013.1
17.5°	1000.7	1000.3	1000.3	999.9	999.2
20°	984.9	984.9	984.5	984.2	983.0
22.5°	968.0	967.6	966.5	966.5	965.0
25°	948.1	947.0	946.2	945.9	944.7
27.5°	926.3	924.8	923.7	923.0	921.8
30°	902.0	900.5	899.3	898.2	897.4
32.5°	875.7	874.9	873.1	872.7	871.2
35°	847.5	846.4	845.3	843.8	842.3
37.5°	817.5	816.4	813.7	813.0	811.9
40°	785.6	784.1	780.7	780.7	779.6
42.5°	751.4	749.9	747.7	746.2	745.4
45°	715.8	714.3	711.7	710.2	709.4
47.5°	677.9	676.7	673.7	672.6	671.5
50°	638.5	637.0	633.6	632.8	631.7
52.5°	597.2	596.4	591.9	591.5	590.4
55°	556.3	552.1	548.4	548.4	547.6
57.5°	511.2	508.2	503.3	503.3	502.6
60°	464.7	462.0	456.4	457.2	456.4
62.5°	419.3	413.6	408.4	410.6	408.7
65°	367.5	364.5	358.8	360.3	360.0
67.5°	320.2	314.5	309.3	312.3	310.8
70°	267.6	264.6	259.4	262.4	258.6
72.5°	218.1	215.4	210.2	213.6	209.8
75°	170.0	167.4	163.3	166.3	162.5
77.5°	124.6	122.7	119.0	122.0	122.7
80°	83.3	81.1	79.2	81.8	82.6
82.5°	48.8	47.3	46.5	46.9	48.8
85°	23.6	21.8	21.8	22.1	22.1
87.5°	6.4	5.6	6.4	6.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)