

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: P974348

Luminaire Tested: FLR2-24-40-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974348
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: FLR2-24-40-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L940-CP125
Ballast/Driver: -

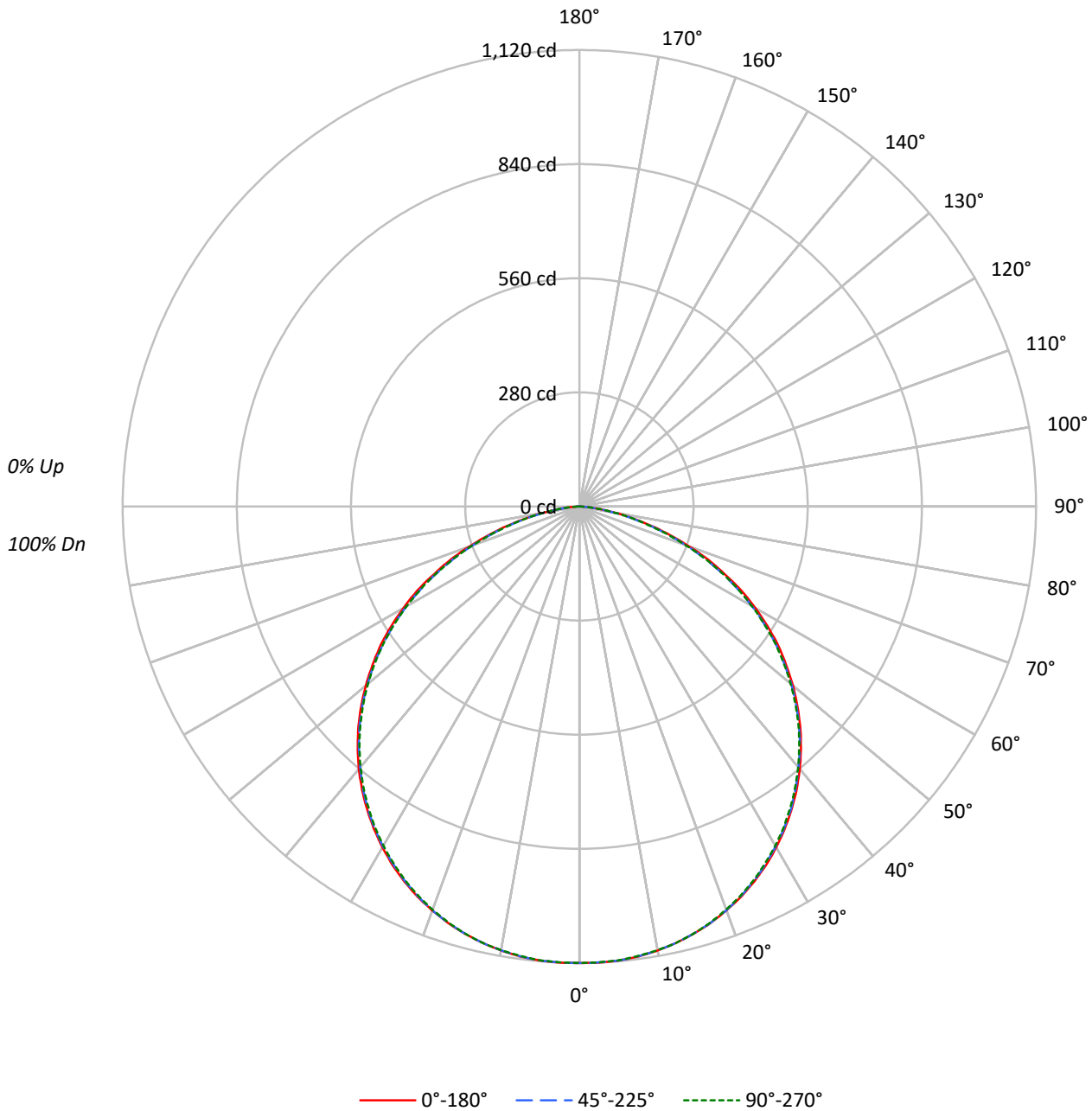
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3166.2 lumens
Efficiency: N/A
Efficacy: 104.5 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): 30.3
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	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	
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	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	
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	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	
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	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	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	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	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	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	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1507	1507	1507
5°	1510	1510	1509
10°	1511	1511	1510
15°	1512	1511	1511
20°	1510	1510	1507
25°	1507	1504	1502
30°	1501	1496	1493
35°	1491	1487	1482
40°	1478	1469	1466
45°	1459	1450	1446
50°	1431	1420	1416
55°	1397	1378	1376
60°	1339	1315	1315
65°	1253	1223	1227
70°	1127	1093	1090
75°	947	909	905
80°	691	657	685
85°	391	360	366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.4
10°-20°	306.3	9.7
20°-30°	467.1	14.8
30°-40°	565.9	17.9
40°-50°	587.8	18.6
50°-60°	525.8	16.6
60°-70°	383.2	12.1
70°-80°	189.8	6.0
80°-90°	33.9	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°	879.7	27.8
0°-40°	1445.6	45.7
0°-60°	2559.3	80.8
0°-90°	3166.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1118	1119	1118	1118	1118	106
15°	1085	1085	1085	1086	1085	306
25°	1015	1014	1013	1013	1012	468
35°	908	906	905	904	902	568
45°	766	765	762	760	760	591
55°	596	591	587	587	586	531
65°	394	390	384	386	386	390
75°	182	179	175	178	174	194
85°	25	23	23	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1120.3	1119.9	1119.9	1120.3	1119.5
5°	1118.3	1118.7	1118.3	1118.3	1117.5
7.5°	1113.8	1113.4	1113.0	1113.4	1112.2
10°	1106.2	1106.2	1105.8	1106.2	1105.4
12.5°	1097.0	1097.0	1097.0	1097.4	1097.0
15°	1085.3	1084.9	1084.9	1085.7	1084.9
17.5°	1071.6	1071.2	1071.2	1070.8	1070.0
20°	1054.8	1054.8	1054.4	1053.9	1052.7
22.5°	1036.7	1036.3	1035.1	1035.1	1033.4
25°	1015.4	1014.2	1013.4	1012.9	1011.7
27.5°	992.0	990.4	989.2	988.4	987.2
30°	965.9	964.3	963.1	961.9	961.1
32.5°	937.8	937.0	935.0	934.6	933.0
35°	907.6	906.4	905.2	903.6	902.0
37.5°	875.5	874.3	871.5	870.7	869.4
40°	841.3	839.7	836.1	836.1	834.9
42.5°	804.7	803.1	800.7	799.1	798.3
45°	766.5	764.9	762.1	760.5	759.7
47.5°	725.9	724.7	721.5	720.3	719.1
50°	683.7	682.1	678.5	677.7	676.5
52.5°	639.5	638.7	633.9	633.5	632.3
55°	595.7	591.3	587.3	587.3	586.5
57.5°	547.5	544.3	539.0	539.0	538.2
60°	497.6	494.8	488.8	489.6	488.8
62.5°	449.0	443.0	437.3	439.7	437.7
65°	393.5	390.3	384.3	385.9	385.5
67.5°	342.9	336.8	331.2	334.4	332.8
70°	286.6	283.4	277.8	281.0	277.0
72.5°	233.5	230.7	225.1	228.7	224.7
75°	182.1	179.3	174.9	178.1	174.1
77.5°	133.5	131.4	127.4	130.6	131.4
80°	89.2	86.8	84.8	87.6	88.4
82.5°	52.3	50.6	49.8	50.2	52.3
85°	25.3	23.3	23.3	23.7	23.7
87.5°	6.8	6.0	6.8	7.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)