

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: P974372

Luminaire Tested: FLR2-24-40-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974372
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L940-CP375
Ballast/Driver: -

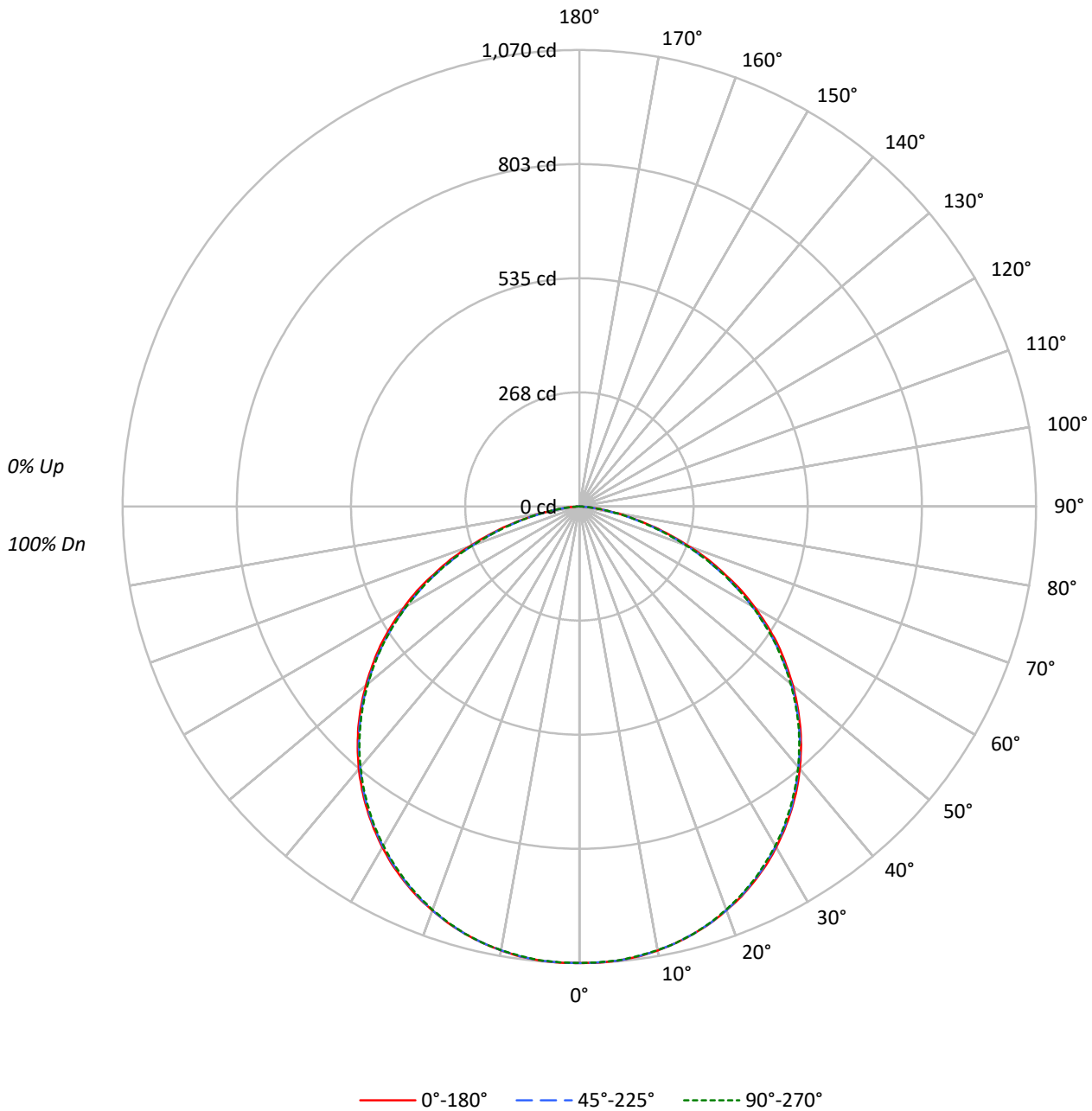
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.9 lumens
Efficiency: N/A
Efficacy: 99.8 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	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°	1440	1440	1440
5°	1443	1443	1442
10°	1444	1443	1443
15°	1444	1444	1444
20°	1443	1442	1440
25°	1440	1437	1435
30°	1434	1430	1427
35°	1424	1420	1415
40°	1412	1403	1401
45°	1393	1385	1381
50°	1367	1357	1353
55°	1335	1316	1314
60°	1279	1257	1257
65°	1197	1169	1173
70°	1077	1044	1041
75°	905	868	865
80°	661	628	655
85°	374	344	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.4
10°-20°	292.7	9.7
20°-30°	446.2	14.8
30°-40°	540.6	17.9
40°-50°	561.6	18.6
50°-60°	502.4	16.6
60°-70°	366.1	12.1
70°-80°	181.3	6.0
80°-90°	32.4	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°	840.5	27.8
0°-40°	1381.1	45.7
0°-60°	2445.1	80.8
0°-90°	3024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1068	1069	1068	1068	1068	102
15°	1037	1036	1036	1037	1036	293
25°	970	969	968	968	967	447
35°	867	866	865	863	862	542
45°	732	731	728	727	726	564
55°	569	565	561	561	560	507
65°	376	373	367	369	368	373
75°	174	171	167	170	166	185
85°	24	22	22	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1070.3	1069.9	1069.9	1070.3	1069.5
5°	1068.3	1068.7	1068.3	1068.3	1067.6
7.5°	1064.1	1063.7	1063.4	1063.7	1062.6
10°	1056.8	1056.8	1056.4	1056.8	1056.1
12.5°	1048.0	1048.0	1048.0	1048.4	1048.0
15°	1036.9	1036.5	1036.5	1037.2	1036.5
17.5°	1023.8	1023.4	1023.4	1023.0	1022.3
20°	1007.7	1007.7	1007.3	1006.9	1005.8
22.5°	990.4	990.0	988.9	988.9	987.3
25°	970.0	968.9	968.1	967.7	966.6
27.5°	947.8	946.2	945.1	944.3	943.2
30°	922.8	921.3	920.1	919.0	918.2
32.5°	895.9	895.2	893.2	892.9	891.3
35°	867.1	866.0	864.8	863.3	861.7
37.5°	836.4	835.2	832.6	831.8	830.6
40°	803.8	802.2	798.8	798.8	797.6
42.5°	768.8	767.3	765.0	763.4	762.7
45°	732.3	730.8	728.1	726.6	725.8
47.5°	693.5	692.4	689.3	688.2	687.0
50°	653.2	651.7	648.2	647.5	646.3
52.5°	611.0	610.2	605.6	605.2	604.1
55°	569.1	564.9	561.1	561.1	560.3
57.5°	523.0	520.0	515.0	515.0	514.2
60°	475.4	472.7	467.0	467.7	467.0
62.5°	429.0	423.2	417.8	420.1	418.2
65°	376.0	372.9	367.1	368.7	368.3
67.5°	327.6	321.8	316.4	319.5	318.0
70°	273.8	270.7	265.4	268.4	264.6
72.5°	223.1	220.4	215.1	218.5	214.7
75°	174.0	171.3	167.0	170.1	166.3
77.5°	127.5	125.6	121.7	124.8	125.6
80°	85.3	82.9	81.0	83.7	84.5
82.5°	49.9	48.4	47.6	48.0	49.9
85°	24.2	22.3	22.3	22.7	22.7
87.5°	6.5	5.8	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)