

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: P974322

Luminaire Tested: FLR2-24-30-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974322
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: FLR2-24-30-L840-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L840-CA080
Ballast/Driver: -

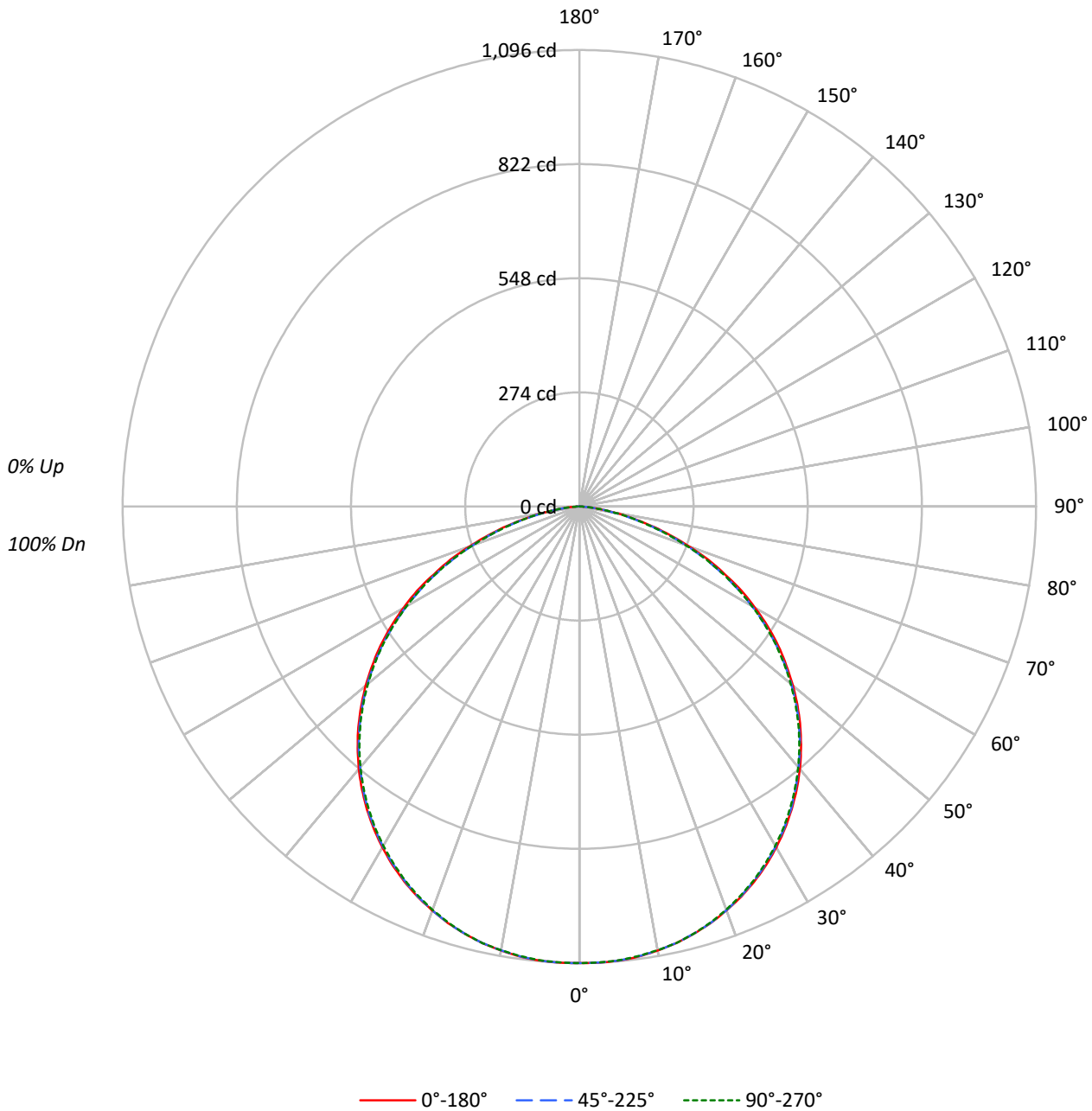
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3099.0 lumens
Efficiency: N/A
Efficacy: 130.8 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): 23.7
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1475	1475	1475
5°	1478	1478	1477
10°	1479	1479	1478
15°	1480	1479	1479
20°	1478	1478	1475
25°	1475	1472	1470
30°	1469	1464	1462
35°	1459	1455	1450
40°	1446	1437	1435
45°	1428	1419	1415
50°	1401	1390	1386
55°	1368	1348	1346
60°	1311	1287	1287
65°	1226	1197	1201
70°	1103	1070	1066
75°	926	889	886
80°	676	643	671
85°	383	352	358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.4
10°-20°	299.8	9.7
20°-30°	457.1	14.8
30°-40°	553.9	17.9
40°-50°	575.3	18.6
50°-60°	514.7	16.6
60°-70°	375.1	12.1
70°-80°	185.8	6.0
80°-90°	33.2	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°	861.1	27.8
0°-40°	1414.9	45.7
0°-60°	2504.9	80.8
0°-90°	3099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1094	1095	1094	1094	1094	104
15°	1062	1062	1062	1063	1062	300
25°	994	993	992	991	990	458
35°	888	887	886	884	883	556
45°	750	749	746	744	744	578
55°	583	579	575	575	574	519
65°	385	382	376	378	377	382
75°	178	176	171	174	170	190
85°	25	23	23	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.5	1096.5	1096.5	1096.5	1096.5
2.5°	1096.5	1096.1	1096.1	1096.5	1095.7
5°	1094.5	1094.9	1094.5	1094.5	1093.7
7.5°	1090.2	1089.8	1089.4	1089.8	1088.6
10°	1082.7	1082.7	1082.3	1082.7	1081.9
12.5°	1073.7	1073.7	1073.7	1074.1	1073.7
15°	1062.3	1061.9	1061.9	1062.6	1061.9
17.5°	1048.9	1048.5	1048.5	1048.1	1047.3
20°	1032.3	1032.3	1032.0	1031.6	1030.4
22.5°	1014.6	1014.3	1013.1	1013.1	1011.5
25°	993.8	992.6	991.8	991.4	990.3
27.5°	971.0	969.4	968.2	967.4	966.3
30°	945.4	943.8	942.6	941.5	940.7
32.5°	917.9	917.1	915.1	914.7	913.1
35°	888.4	887.2	886.0	884.4	882.8
37.5°	856.9	855.7	852.9	852.2	851.0
40°	823.4	821.9	818.3	818.3	817.1
42.5°	787.6	786.1	783.7	782.1	781.3
45°	750.3	748.7	745.9	744.4	743.6
47.5°	710.5	709.3	706.2	705.0	703.8
50°	669.2	667.6	664.1	663.3	662.1
52.5°	625.9	625.2	620.4	620.0	618.9
55°	583.1	578.7	574.8	574.8	574.0
57.5°	535.8	532.7	527.6	527.6	526.8
60°	487.1	484.3	478.4	479.2	478.4
62.5°	439.5	433.6	428.0	430.4	428.4
65°	385.2	382.0	376.1	377.7	377.3
67.5°	335.6	329.7	324.2	327.3	325.8
70°	280.5	277.4	271.9	275.0	271.1
72.5°	228.6	225.8	220.3	223.9	219.9
75°	178.2	175.5	171.1	174.3	170.4
77.5°	130.6	128.7	124.7	127.9	128.7
80°	87.3	85.0	83.0	85.8	86.6
82.5°	51.1	49.6	48.8	49.2	51.1
85°	24.8	22.8	22.8	23.2	23.2
87.5°	6.7	5.9	6.7	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)