

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: P974772

Luminaire Tested: FLR2-24-40HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974772
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: FLR2-24-40HE-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

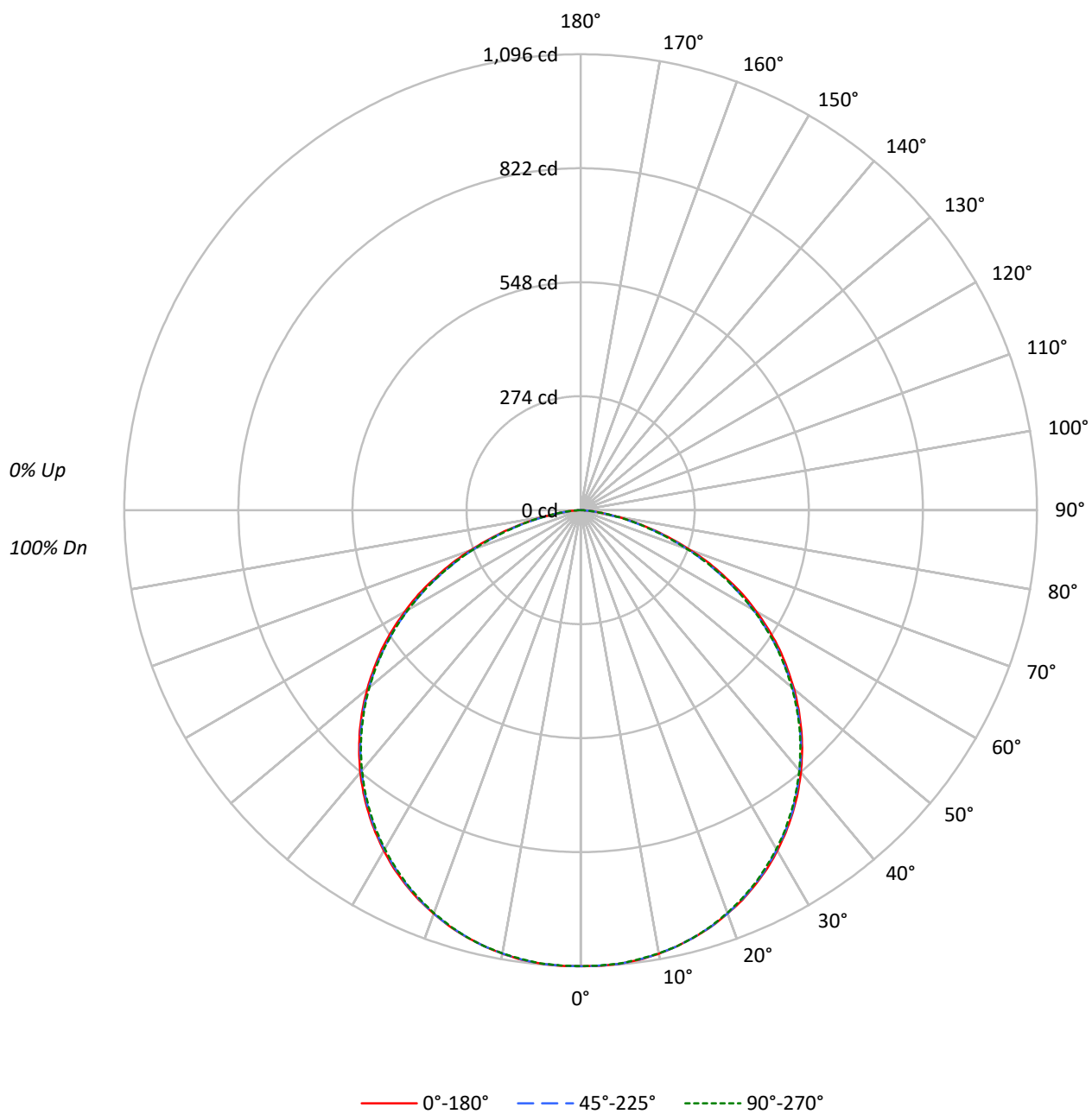
Lumens per Lamp: N/A
Luminaire Lumens: 3098.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1475	1475	1475
5°	1478	1478	1477
10°	1479	1478	1478
15°	1479	1479	1479
20°	1478	1477	1475
25°	1475	1472	1470
30°	1468	1464	1461
35°	1459	1455	1450
40°	1446	1437	1435
45°	1427	1419	1415
50°	1401	1390	1386
55°	1367	1348	1346
60°	1311	1287	1287
65°	1226	1197	1201
70°	1103	1069	1066
75°	926	889	885
80°	676	643	670
85°	383	352	358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1427 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°	553.8	17.9
40°-50°	575.2	18.6
50°-60°	514.6	16.6
60°-70°	375.0	12.1
70°-80°	185.7	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°	860.9	27.8
0°-40°	1414.6	45.7
0°-60°	2504.4	80.8
0°-90°	3098.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.4	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	1062	1062	300
25°	994	992	992	991	990	458
35°	888	887	886	884	883	556
45°	750	748	746	744	743	578
55°	583	579	575	575	574	519
65°	385	382	376	378	377	382
75°	178	175	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°	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1096.3	1095.9	1095.9	1096.3	1095.5
5°	1094.3	1094.7	1094.3	1094.3	1093.5
7.5°	1090.0	1089.6	1089.2	1089.6	1088.4
10°	1082.5	1082.5	1082.1	1082.5	1081.7
12.5°	1073.4	1073.4	1073.4	1073.8	1073.4
15°	1062.0	1061.6	1061.6	1062.4	1061.6
17.5°	1048.7	1048.3	1048.3	1047.9	1047.1
20°	1032.1	1032.1	1031.7	1031.4	1030.2
22.5°	1014.4	1014.0	1012.9	1012.9	1011.3
25°	993.6	992.4	991.6	991.2	990.1
27.5°	970.8	969.2	968.0	967.2	966.1
30°	945.2	943.6	942.5	941.3	940.5
32.5°	917.7	916.9	914.9	914.5	913.0
35°	888.2	887.0	885.8	884.2	882.7
37.5°	856.7	855.5	852.8	852.0	850.8
40°	823.3	821.7	818.2	818.2	817.0
42.5°	787.5	785.9	783.5	782.0	781.2
45°	750.1	748.5	745.8	744.2	743.4
47.5°	710.4	709.2	706.1	704.9	703.7
50°	669.1	667.5	664.0	663.2	662.0
52.5°	625.8	625.0	620.3	619.9	618.7
55°	582.9	578.6	574.7	574.7	573.9
57.5°	535.7	532.6	527.5	527.5	526.7
60°	487.0	484.2	478.3	479.1	478.3
62.5°	439.4	433.5	428.0	430.3	428.4
65°	385.1	381.9	376.0	377.6	377.2
67.5°	335.5	329.6	324.1	327.3	325.7
70°	280.5	277.3	271.8	274.9	271.0
72.5°	228.5	225.8	220.3	223.8	219.9
75°	178.2	175.4	171.1	174.3	170.3
77.5°	130.6	128.6	124.7	127.8	128.6
80°	87.3	85.0	83.0	85.7	86.5
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)