

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: P974364

Luminaire Tested: FLR2-24-40-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974364
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L940-CP250
Ballast/Driver: -

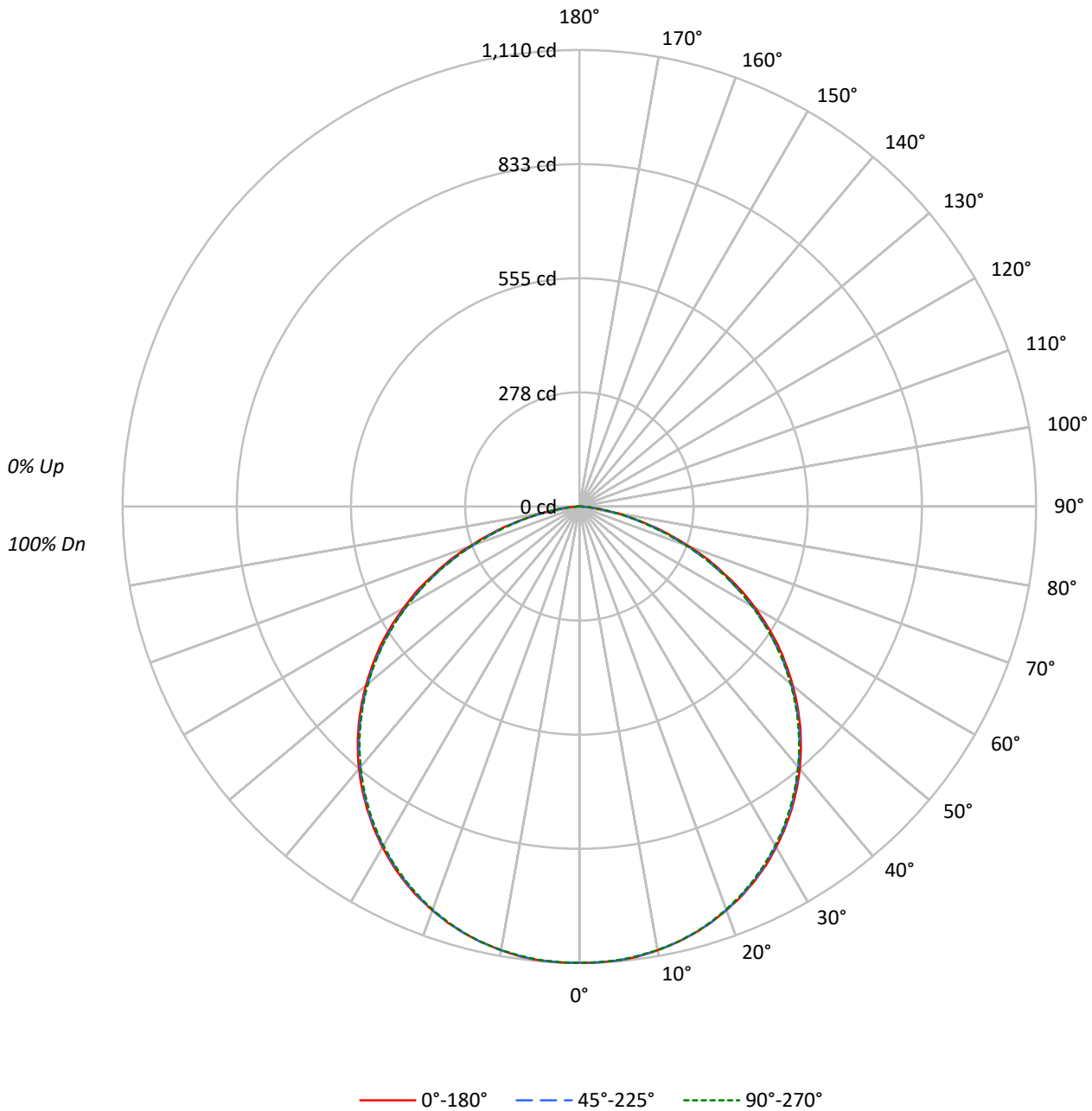
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3136.8 lumens
Efficiency: N/A
Efficacy: 103.5 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									
RC	80									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																
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°	1493	1493	1493
5°	1496	1496	1495
10°	1497	1497	1496
15°	1498	1497	1497
20°	1496	1496	1493
25°	1493	1490	1488
30°	1487	1482	1479
35°	1477	1473	1468
40°	1464	1455	1453
45°	1445	1437	1432
50°	1418	1407	1403
55°	1384	1365	1363
60°	1327	1303	1303
65°	1241	1212	1216
70°	1117	1083	1079
75°	938	900	896
80°	685	651	679
85°	387	357	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1445 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.4
10°-20°	303.5	9.7
20°-30°	462.7	14.8
30°-40°	560.6	17.9
40°-50°	582.3	18.6
50°-60°	520.9	16.6
60°-70°	379.7	12.1
70°-80°	188.0	6.0
80°-90°	33.6	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°	871.5	27.8
0°-40°	1432.2	45.7
0°-60°	2535.4	80.8
0°-90°	3136.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1108	1108	1108	1108	1107	105
15°	1075	1075	1075	1076	1075	304
25°	1006	1005	1004	1004	1002	464
35°	899	898	897	895	894	562
45°	759	758	755	753	753	585
55°	590	586	582	582	581	526
65°	390	387	381	382	382	387
75°	180	178	173	176	172	192
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°	1109.8	1109.8	1109.8	1109.8	1109.8
2.5°	1109.8	1109.4	1109.4	1109.8	1109.0
5°	1107.9	1108.3	1107.9	1107.9	1107.1
7.5°	1103.5	1103.1	1102.7	1103.1	1101.9
10°	1095.9	1095.9	1095.5	1095.9	1095.1
12.5°	1086.7	1086.7	1086.7	1087.1	1086.7
15°	1075.2	1074.8	1074.8	1075.6	1074.8
17.5°	1061.7	1061.3	1061.3	1060.9	1060.1
20°	1044.9	1044.9	1044.5	1044.1	1042.9
22.5°	1027.0	1026.6	1025.4	1025.4	1023.8
25°	1005.9	1004.7	1003.9	1003.5	1002.3
27.5°	982.8	981.2	980.0	979.2	978.0
30°	956.9	955.3	954.1	952.9	952.2
32.5°	929.1	928.3	926.3	925.9	924.3
35°	899.2	898.0	896.8	895.2	893.6
37.5°	867.3	866.1	863.3	862.6	861.4
40°	833.5	831.9	828.3	828.3	827.1
42.5°	797.2	795.6	793.3	791.7	790.9
45°	759.4	757.8	755.0	753.4	752.6
47.5°	719.2	718.0	714.8	713.6	712.4
50°	677.4	675.8	672.2	671.4	670.2
52.5°	633.6	632.8	628.0	627.6	626.4
55°	590.2	585.8	581.8	581.8	581.0
57.5°	542.4	539.2	534.0	534.0	533.2
60°	493.0	490.2	484.2	485.0	484.2
62.5°	444.8	438.8	433.3	435.7	433.7
65°	389.9	386.7	380.7	382.3	381.9
67.5°	339.7	333.7	328.1	331.3	329.7
70°	283.9	280.7	275.2	278.4	274.4
72.5°	231.4	228.6	223.0	226.6	222.6
75°	180.4	177.6	173.2	176.4	172.4
77.5°	132.2	130.2	126.2	129.4	130.2
80°	88.4	86.0	84.0	86.8	87.6
82.5°	51.8	50.2	49.4	49.8	51.8
85°	25.1	23.1	23.1	23.5	23.5
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)