

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: P974434

Luminaire Tested: FLR2-24-30-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974434
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-L850-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L850-CA080
Ballast/Driver: -

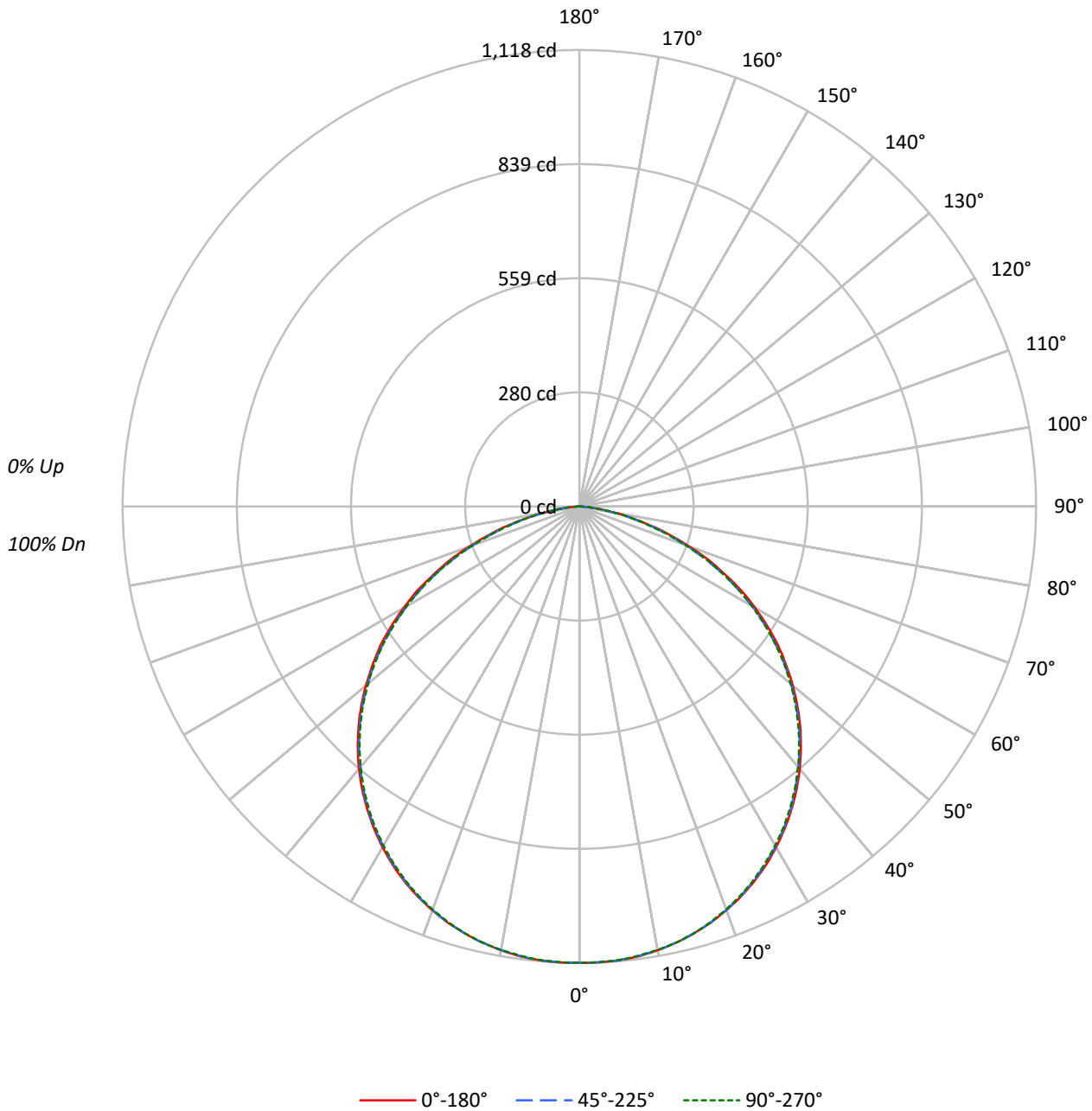
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159.1 lumens
Efficiency: N/A
Efficacy: 133.3 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										
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	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°	1504	1504	1504
5°	1507	1507	1506
10°	1508	1507	1507
15°	1508	1508	1508
20°	1507	1506	1504
25°	1504	1501	1499
30°	1497	1493	1490
35°	1487	1484	1478
40°	1474	1465	1463
45°	1455	1447	1442
50°	1428	1417	1413
55°	1394	1375	1373
60°	1336	1312	1312
65°	1250	1221	1224
70°	1125	1090	1087
75°	945	907	903
80°	690	656	683
85°	391	360	366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.4
10°-20°	305.7	9.7
20°-30°	466.0	14.8
30°-40°	564.6	17.9
40°-50°	586.5	18.6
50°-60°	524.7	16.6
60°-70°	382.4	12.1
70°-80°	189.4	6.0
80°-90°	33.8	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°	877.8	27.8
0°-40°	1442.4	45.7
0°-60°	2553.5	80.8
0°-90°	3159.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1116	1116	1116	1116	1115	106
15°	1083	1082	1082	1083	1082	306
25°	1013	1012	1011	1011	1010	467
35°	906	904	903	902	900	566
45°	765	763	760	759	758	589
55°	594	590	586	586	585	530
65°	393	389	383	385	385	389
75°	182	179	174	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°	1117.8	1117.8	1117.8	1117.8	1117.8
2.5°	1117.8	1117.4	1117.4	1117.8	1117.0
5°	1115.8	1116.2	1115.8	1115.8	1115.0
7.5°	1111.4	1111.0	1110.6	1111.0	1109.7
10°	1103.7	1103.7	1103.3	1103.7	1102.9
12.5°	1094.5	1094.5	1094.5	1094.9	1094.5
15°	1082.9	1082.5	1082.5	1083.3	1082.5
17.5°	1069.2	1068.8	1068.8	1068.4	1067.6
20°	1052.4	1052.4	1052.0	1051.6	1050.4
22.5°	1034.3	1033.9	1032.7	1032.7	1031.1
25°	1013.1	1011.9	1011.1	1010.7	1009.5
27.5°	989.8	988.2	987.0	986.2	985.0
30°	963.8	962.2	961.0	959.7	958.9
32.5°	935.7	934.9	932.9	932.5	930.9
35°	905.6	904.4	903.2	901.6	900.0
37.5°	873.5	872.3	869.5	868.7	867.5
40°	839.4	837.8	834.2	834.2	833.0
42.5°	802.9	801.3	798.9	797.3	796.5
45°	764.8	763.2	760.4	758.8	758.0
47.5°	724.3	723.1	719.9	718.7	717.5
50°	682.2	680.6	677.0	676.2	675.0
52.5°	638.1	637.3	632.5	632.1	630.9
55°	594.4	590.0	586.0	586.0	585.2
57.5°	546.3	543.0	537.8	537.8	537.0
60°	496.5	493.7	487.7	488.5	487.7
62.5°	448.0	442.0	436.4	438.8	436.8
65°	392.6	389.4	383.4	385.0	384.6
67.5°	342.1	336.1	330.5	333.7	332.1
70°	286.0	282.8	277.1	280.3	276.3
72.5°	233.0	230.2	224.6	228.2	224.2
75°	181.7	178.9	174.5	177.7	173.7
77.5°	133.2	131.1	127.1	130.3	131.1
80°	89.0	86.6	84.6	87.4	88.2
82.5°	52.1	50.5	49.7	50.1	52.1
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)