

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: P974442

Luminaire Tested: FLR2-24-30-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974442
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L850-CA125
Ballast/Driver: -

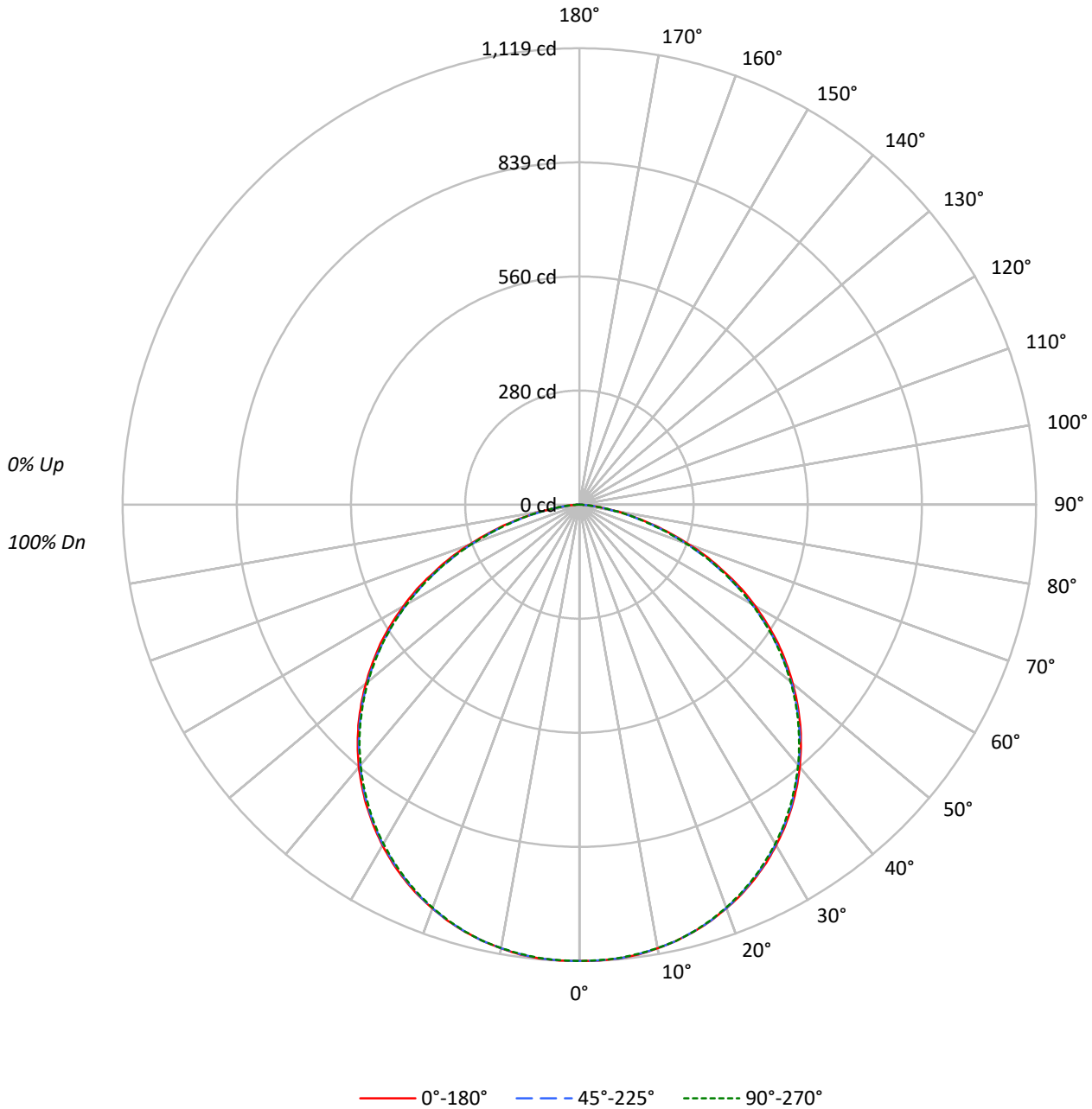
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3162.6 lumens
Efficiency: N/A
Efficacy: 133.4 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°	1506	1506	1506
5°	1509	1509	1508
10°	1510	1509	1508
15°	1510	1509	1509
20°	1508	1508	1506
25°	1506	1503	1500
30°	1499	1495	1491
35°	1489	1485	1480
40°	1476	1467	1465
45°	1457	1448	1444
50°	1429	1419	1414
55°	1396	1376	1374
60°	1338	1314	1314
65°	1252	1222	1226
70°	1126	1091	1088
75°	946	908	904
80°	690	656	684
85°	391	360	366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.4
10°-20°	306.0	9.7
20°-30°	466.5	14.8
30°-40°	565.2	17.9
40°-50°	587.1	18.6
50°-60°	525.2	16.6
60°-70°	382.8	12.1
70°-80°	189.6	6.0
80°-90°	33.9	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°	878.7	27.8
0°-40°	1444.0	45.7
0°-60°	2556.3	80.8
0°-90°	3162.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1117	1117	1117	1117	1116	106
15°	1084	1084	1084	1084	1084	306
25°	1014	1013	1012	1012	1011	467
35°	907	905	904	903	901	567
45°	766	764	761	760	759	590
55°	595	591	587	587	586	530
65°	393	390	384	385	385	390
75°	182	179	175	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°	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1119.0	1118.6	1118.6	1119.0	1118.2
5°	1117.0	1117.4	1117.0	1117.0	1116.2
7.5°	1112.6	1112.1	1111.7	1112.1	1110.9
10°	1104.9	1104.9	1104.5	1104.9	1104.1
12.5°	1095.7	1095.7	1095.7	1096.1	1095.7
15°	1084.0	1083.6	1083.6	1084.4	1083.6
17.5°	1070.4	1070.0	1070.0	1069.6	1068.8
20°	1053.5	1053.5	1053.1	1052.7	1051.5
22.5°	1035.5	1035.1	1033.9	1033.9	1032.3
25°	1014.2	1013.0	1012.2	1011.8	1010.6
27.5°	990.9	989.3	988.1	987.3	986.1
30°	964.8	963.2	962.0	960.8	960.0
32.5°	936.7	935.9	933.9	933.5	931.9
35°	906.6	905.4	904.2	902.6	901.0
37.5°	874.5	873.3	870.4	869.6	868.4
40°	840.3	838.7	835.1	835.1	833.9
42.5°	803.8	802.2	799.8	798.2	797.4
45°	765.7	764.1	761.2	759.6	758.8
47.5°	725.1	723.9	720.7	719.5	718.3
50°	682.9	681.3	677.7	676.9	675.7
52.5°	638.8	638.0	633.2	632.8	631.6
55°	595.0	590.6	586.6	586.6	585.8
57.5°	546.8	543.6	538.4	538.4	537.6
60°	497.1	494.2	488.2	489.0	488.2
62.5°	448.5	442.5	436.8	439.2	437.2
65°	393.1	389.9	383.8	385.4	385.0
67.5°	342.5	336.5	330.8	334.0	332.4
70°	286.3	283.1	277.4	280.6	276.6
72.5°	233.3	230.5	224.8	228.5	224.4
75°	181.9	179.1	174.7	177.9	173.8
77.5°	133.3	131.3	127.3	130.5	131.3
80°	89.1	86.7	84.7	87.5	88.3
82.5°	52.2	50.6	49.8	50.2	52.2
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)