

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: P974394

Luminaire Tested: FLR2-24-30-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974394
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L850-CP080
Ballast/Driver: -

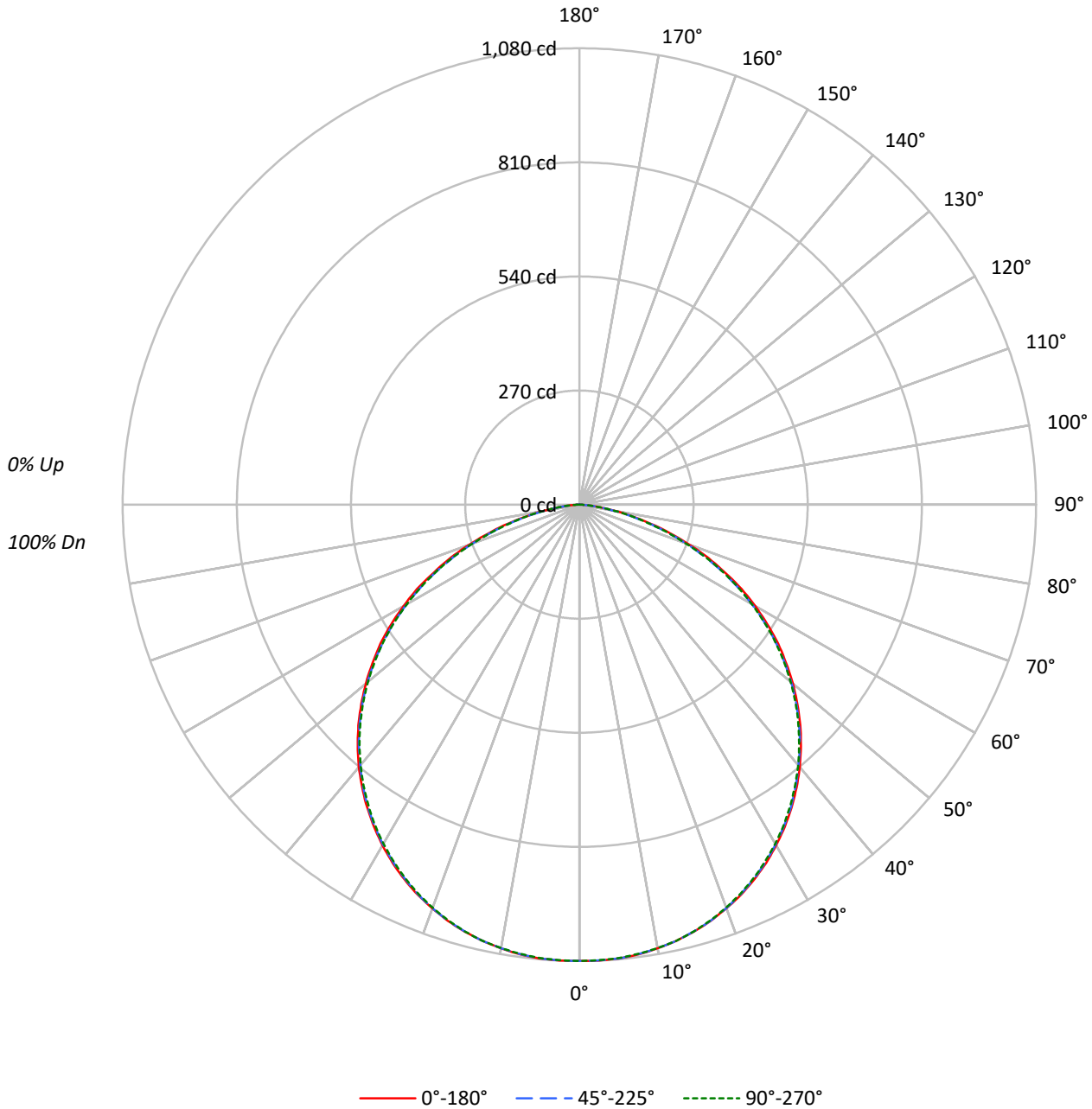
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3052.4 lumens
Efficiency: N/A
Efficacy: 128.8 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									
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°	1453	1453	1453
5°	1456	1456	1455
10°	1457	1456	1456
15°	1457	1457	1457
20°	1456	1455	1453
25°	1453	1450	1448
30°	1447	1443	1439
35°	1437	1433	1428
40°	1425	1416	1414
45°	1406	1398	1394
50°	1380	1369	1365
55°	1347	1328	1326
60°	1291	1268	1268
65°	1208	1180	1183
70°	1087	1054	1050
75°	912	876	872
80°	666	634	661
85°	377	347	354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.4
10°-20°	295.3	9.7
20°-30°	450.3	14.8
30°-40°	545.5	17.9
40°-50°	566.7	18.6
50°-60°	506.9	16.6
60°-70°	369.5	12.1
70°-80°	183.0	6.0
80°-90°	32.7	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°	848.1	27.8
0°-40°	1393.6	45.7
0°-60°	2467.2	80.8
0°-90°	3052.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1078	1078	1078	1078	1077	103
15°	1046	1046	1046	1047	1046	295
25°	979	978	977	976	975	451
35°	875	874	873	871	870	547
45°	739	737	735	733	732	570
55°	574	570	566	566	565	512
65°	379	376	370	372	372	376
75°	176	173	169	172	168	187
85°	24	22	22	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1080.0	1079.6	1079.6	1080.0	1079.2
5°	1078.1	1078.4	1078.1	1078.1	1077.3
7.5°	1073.8	1073.4	1073.0	1073.4	1072.2
10°	1066.4	1066.4	1066.0	1066.4	1065.7
12.5°	1057.5	1057.5	1057.5	1057.9	1057.5
15°	1046.3	1045.9	1045.9	1046.7	1045.9
17.5°	1033.1	1032.7	1032.7	1032.3	1031.6
20°	1016.8	1016.8	1016.4	1016.0	1014.9
22.5°	999.4	999.0	997.8	997.8	996.3
25°	978.8	977.7	976.9	976.5	975.4
27.5°	956.4	954.8	953.7	952.9	951.7
30°	931.2	929.6	928.5	927.3	926.5
32.5°	904.1	903.3	901.3	901.0	899.4
35°	875.0	873.8	872.7	871.1	869.6
37.5°	844.0	842.8	840.1	839.3	838.2
40°	811.1	809.5	806.0	806.0	804.9
42.5°	775.8	774.2	771.9	770.4	769.6
45°	739.0	737.4	734.7	733.2	732.4
47.5°	699.8	698.7	695.6	694.4	693.3
50°	659.2	657.6	654.1	653.3	652.2
52.5°	616.5	615.8	611.1	610.7	609.6
55°	574.3	570.0	566.2	566.2	565.4
57.5°	527.8	524.7	519.7	519.7	518.9
60°	479.7	477.0	471.2	472.0	471.2
62.5°	432.8	427.0	421.6	423.9	422.0
65°	379.4	376.3	370.5	372.0	371.6
67.5°	330.5	324.7	319.3	322.4	320.9
70°	276.3	273.2	267.8	270.9	267.0
72.5°	225.1	222.4	217.0	220.5	216.6
75°	175.5	172.8	168.6	171.7	167.8
77.5°	128.7	126.7	122.8	125.9	126.7
80°	86.0	83.7	81.8	84.5	85.3
82.5°	50.4	48.8	48.1	48.4	50.4
85°	24.4	22.5	22.5	22.9	22.9
87.5°	6.6	5.8	6.6	7.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)