

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: P973503

Luminaire Tested: FLR2-22-35-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35-L830-CP125
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source:
Ballast/Driver: -

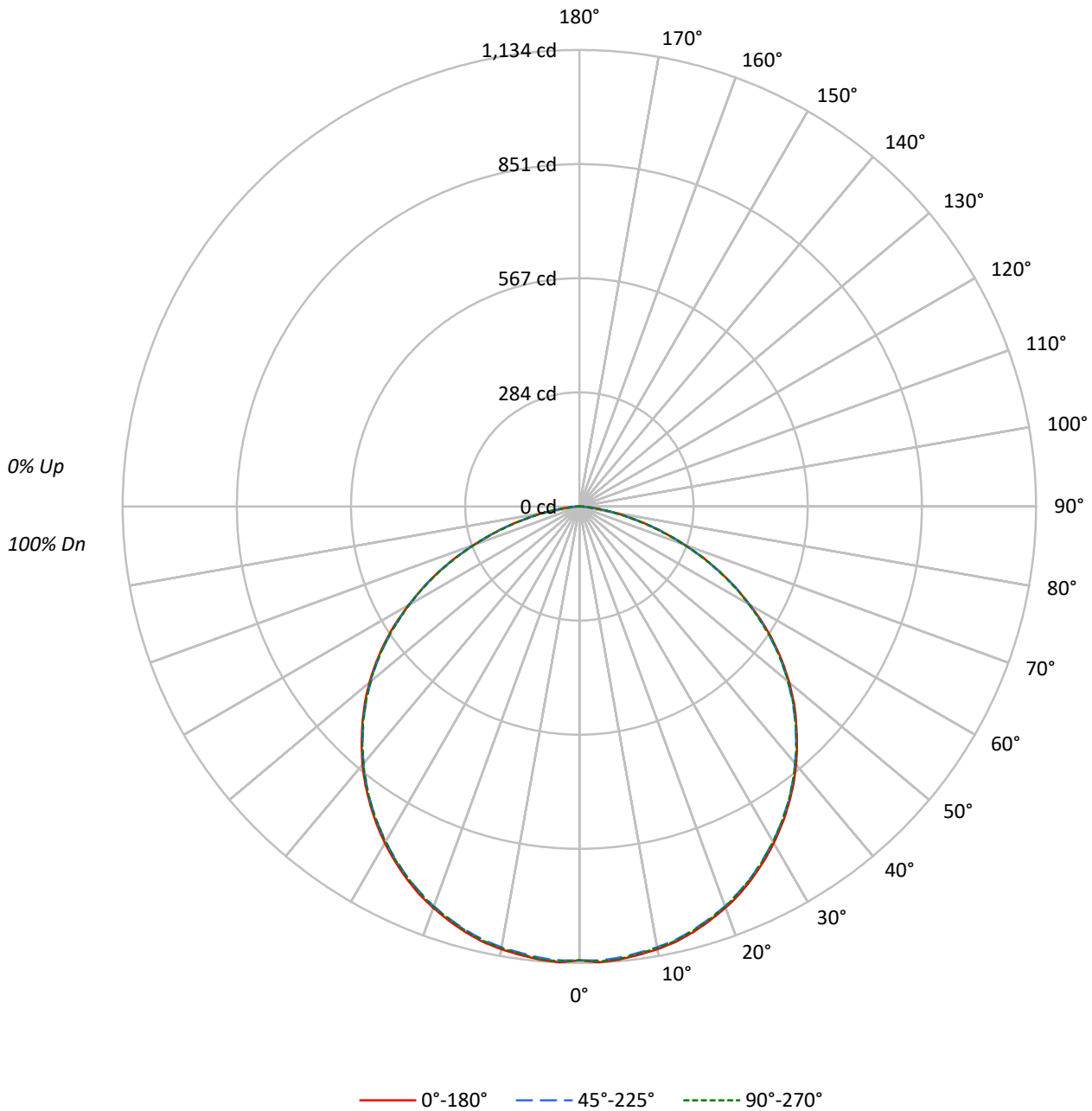
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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

TEST NUMBER: P973503
CATALOG NUMBER: FLR2-22-35-L830-CP125

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	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34													
8	61	47	39	33	59	47	39	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	40	34	29	27						27													
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3034	3034	3034
5°	3053	3039	3049
10°	3052	3039	3044
15°	3049	3036	3040
20°	3039	3027	3031
25°	3023	3010	3012
30°	3001	2988	2990
35°	2974	2962	2964
40°	2942	2928	2930
45°	2899	2885	2891
50°	2848	2828	2833
55°	2767	2744	2754
60°	2631	2619	2619
65°	2456	2451	2443
70°	2175	2186	2180
75°	1832	1817	1803
80°	1316	1296	1285
85°	689	689	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2899 cd/sqm



TEST NUMBER: P973503
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.4
10°-20°	307.0	9.7
20°-30°	466.5	14.8
30°-40°	563.9	17.9
40°-50°	585.2	18.6
50°-60°	523.2	16.6
60°-70°	380.4	12.1
70°-80°	187.1	5.9
80°-90°	32.4	1.0
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°	880.2	27.9
0°-40°	1444.1	45.8
0°-60°	2552.5	81.0
0°-90°	3152.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1130	1117	1125	1121	1129	107
15°	1095	1082	1090	1087	1091	309
25°	1018	1007	1014	1012	1014	469
35°	905	899	902	902	902	566
45°	762	758	758	760	760	588
55°	590	586	585	586	587	526
65°	386	387	385	385	384	380
75°	176	178	175	176	173	187
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1133.5	1120.3	1128.7	1123.8	1131.5
5°	1130.1	1116.8	1125.2	1121.0	1128.7
7.5°	1123.8	1110.6	1118.9	1114.7	1121.0
10°	1116.8	1102.9	1112.0	1107.8	1114.0
12.5°	1107.8	1094.6	1102.9	1099.4	1105.0
15°	1094.6	1082.0	1089.7	1086.9	1091.1
17.5°	1078.5	1066.0	1073.7	1071.6	1075.1
20°	1061.1	1049.3	1057.0	1054.9	1058.3
22.5°	1041.6	1029.1	1036.1	1034.7	1037.5
25°	1018.0	1006.8	1013.8	1011.7	1014.5
27.5°	992.9	982.5	988.0	988.0	989.4
30°	965.7	956.0	961.6	961.6	962.3
32.5°	936.5	928.8	932.3	933.0	933.0
35°	905.2	898.9	901.7	902.4	902.4
37.5°	872.4	866.2	868.3	869.7	869.7
40°	837.6	832.1	833.4	834.8	834.1
42.5°	800.0	795.8	796.5	797.9	797.9
45°	761.7	758.2	758.2	759.6	759.6
47.5°	722.7	719.3	717.9	719.3	719.3
50°	680.3	676.8	675.4	676.8	676.8
52.5°	635.7	632.2	632.2	632.2	632.9
55°	589.7	586.3	584.9	586.3	587.0
57.5°	541.0	539.6	537.5	538.2	536.1
60°	488.8	488.8	486.7	488.1	486.7
62.5°	438.0	439.4	437.3	437.3	435.9
65°	385.7	387.1	385.0	385.0	383.7
67.5°	332.1	334.2	331.4	331.4	330.0
70°	276.4	280.6	277.8	278.5	277.1
72.5°	226.3	228.4	225.6	225.6	224.2
75°	176.2	177.6	174.8	175.5	173.4
77.5°	126.7	128.8	126.0	126.7	126.0
80°	84.9	85.6	83.6	84.2	82.9
82.5°	49.4	50.1	49.4	48.7	48.0
85°	22.3	23.0	22.3	22.3	21.6
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)