

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: P973550

Luminaire Tested: FLR2-22-25-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973550
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: FLR2-22-25-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

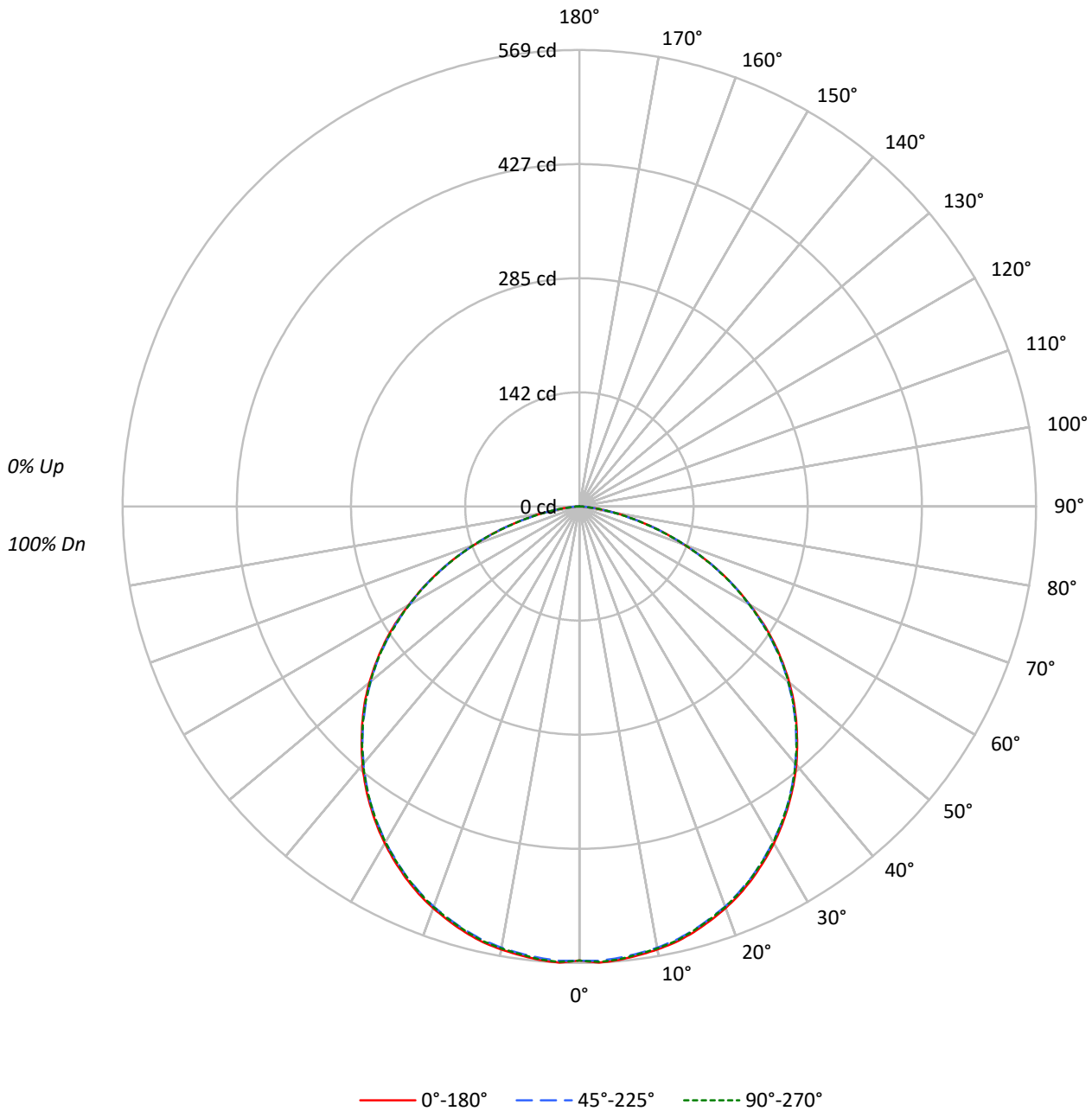
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1583.0 lumens
Efficiency: N/A
Efficacy: 83.8 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): 18.9
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: P973550
CATALOG NUMBER: FLR2-22-25-L930-CA125

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	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°	1523	1523	1523
5°	1533	1526	1531
10°	1532	1526	1529
15°	1531	1524	1526
20°	1526	1520	1522
25°	1518	1512	1512
30°	1507	1500	1501
35°	1493	1487	1488
40°	1477	1470	1472
45°	1456	1449	1451
50°	1430	1420	1423
55°	1389	1378	1383
60°	1321	1315	1315
65°	1233	1231	1226
70°	1092	1098	1095
75°	920	913	906
80°	662	651	645
85°	346	346	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1456 cd/sqm



TEST NUMBER: P973550
 CATALOG NUMBER: FLR2-22-25-L930-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.4
10°-20°	154.1	9.7
20°-30°	234.2	14.8
30°-40°	283.1	17.9
40°-50°	293.9	18.6
50°-60°	262.7	16.6
60°-70°	191.0	12.1
70°-80°	94.0	5.9
80°-90°	16.3	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°	442.0	27.9
0°-40°	725.1	45.8
0°-60°	1281.7	81.0
0°-90°	1583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	568	561	565	563	567	54
15°	550	543	547	546	548	155
25°	511	506	509	508	509	236
35°	454	451	453	453	453	284
45°	382	381	381	381	381	295
55°	296	294	294	294	295	264
65°	194	194	193	193	193	191
75°	88	89	88	88	87	94
85°	11	12	11	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.1	566.1	566.1	566.1	566.1
2.5°	569.2	562.6	566.8	564.3	568.2
5°	567.5	560.8	565.0	562.9	566.8
7.5°	564.3	557.7	561.9	559.8	562.9
10°	560.8	553.8	558.4	556.3	559.4
12.5°	556.3	549.6	553.8	552.1	554.9
15°	549.6	543.3	547.2	545.8	547.9
17.5°	541.6	535.3	539.1	538.1	539.8
20°	532.8	526.9	530.7	529.7	531.4
22.5°	523.0	516.8	520.3	519.6	521.0
25°	511.2	505.6	509.1	508.0	509.4
27.5°	498.6	493.3	496.1	496.1	496.8
30°	484.9	480.0	482.8	482.8	483.2
32.5°	470.3	466.4	468.2	468.5	468.5
35°	454.5	451.4	452.8	453.1	453.1
37.5°	438.1	434.9	436.0	436.7	436.7
40°	420.6	417.8	418.5	419.2	418.9
42.5°	401.7	399.6	400.0	400.7	400.7
45°	382.5	380.7	380.7	381.4	381.4
47.5°	362.9	361.2	360.5	361.2	361.2
50°	341.6	339.8	339.1	339.8	339.8
52.5°	319.2	317.5	317.5	317.5	317.8
55°	296.1	294.4	293.7	294.4	294.7
57.5°	271.7	271.0	269.9	270.3	269.2
60°	245.4	245.4	244.4	245.1	244.4
62.5°	219.9	220.6	219.6	219.6	218.9
65°	193.7	194.4	193.3	193.3	192.6
67.5°	166.8	167.8	166.4	166.4	165.7
70°	138.8	140.9	139.5	139.9	139.2
72.5°	113.6	114.7	113.3	113.3	112.6
75°	88.5	89.2	87.8	88.1	87.1
77.5°	63.6	64.7	63.3	63.6	63.3
80°	42.7	43.0	42.0	42.3	41.6
82.5°	24.8	25.2	24.8	24.5	24.1
85°	11.2	11.5	11.2	11.2	10.8
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)