

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: P973494

Luminaire Tested: FLR2-14-20-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-20-L950-CA125
Description: 1*4 FLR-2.0 2000 LUMEN at 5000 CCT & 90 CRI with Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

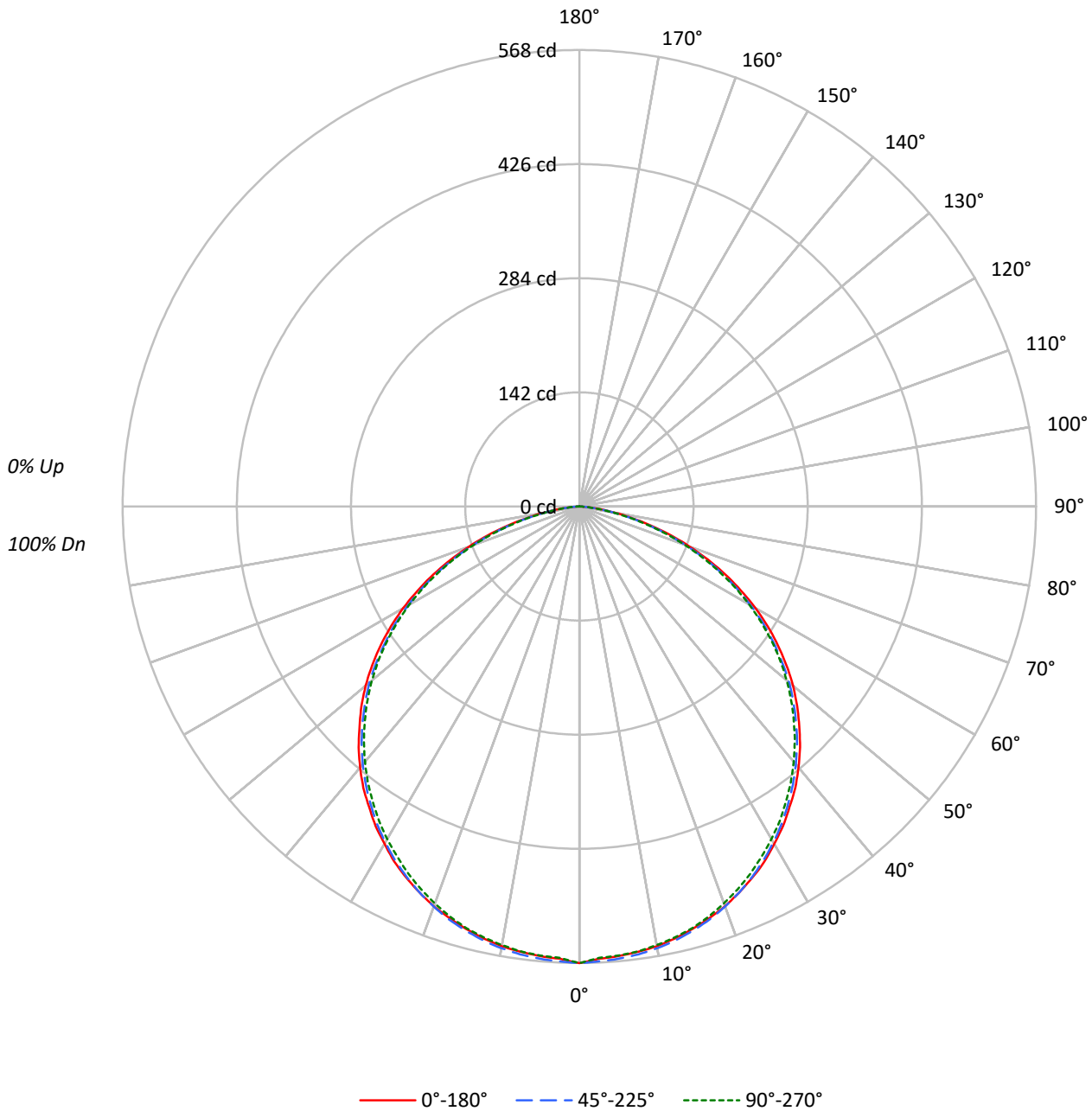
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1590.5 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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	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	62	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	70	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	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	40	34	29	27						27														
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1529	1529	1529
5°	1517	1526	1515
10°	1519	1525	1514
15°	1516	1522	1513
20°	1516	1517	1505
25°	1513	1510	1496
30°	1506	1500	1485
35°	1498	1486	1472
40°	1490	1472	1457
45°	1472	1451	1436
50°	1452	1426	1409
55°	1416	1383	1369
60°	1361	1323	1312
65°	1275	1237	1224
70°	1149	1103	1094
75°	964	915	905
80°	700	652	634
85°	371	327	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	3.4
10°-20°	154.6	9.7
20°-30°	234.8	14.8
30°-40°	284.1	17.9
40°-50°	295.2	18.6
50°-60°	264.3	16.6
60°-70°	192.8	12.1
70°-80°	94.9	6.0
80°-90°	15.9	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°	443.2	27.9
0°-40°	727.3	45.7
0°-60°	1286.9	80.9
0°-90°	1590.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	562	568	565	570	561	53
15°	544	549	546	551	543	154
25°	510	512	508	511	504	235
35°	456	457	452	454	448	286
45°	387	386	381	382	377	299
55°	302	299	295	294	292	269
65°	200	198	194	193	192	198
75°	93	91	88	87	87	99
85°	12	12	11	9	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.3	568.3	568.3	568.3	568.3
2.5°	563.3	569.7	566.6	572.3	562.2
5°	561.7	567.8	565.0	570.4	561.0
7.5°	558.9	565.2	562.2	567.3	558.4
10°	555.8	561.5	558.2	563.3	554.2
12.5°	550.4	556.0	553.0	557.7	549.2
15°	544.3	549.2	546.4	551.1	543.1
17.5°	537.2	541.9	538.9	543.1	535.1
20°	529.5	533.2	529.9	533.5	525.7
22.5°	519.8	523.3	519.8	522.2	515.3
25°	509.5	512.1	508.5	510.9	503.8
27.5°	498.4	499.8	496.3	498.2	490.9
30°	484.8	486.4	482.7	485.0	478.0
32.5°	471.6	472.5	468.3	470.2	463.8
35°	456.1	457.0	452.5	454.4	448.1
37.5°	441.3	441.0	436.3	437.5	432.1
40°	424.1	423.9	418.9	419.9	414.7
42.5°	406.4	405.5	400.8	401.3	396.6
45°	386.7	386.2	381.3	382.0	377.3
47.5°	367.6	366.2	361.3	361.5	357.5
50°	346.9	344.8	340.6	340.1	336.6
52.5°	324.8	322.5	317.8	317.3	314.7
55°	301.8	299.2	294.7	294.0	291.9
57.5°	278.0	274.7	271.2	269.8	268.1
60°	252.9	249.8	245.8	244.4	243.7
62.5°	226.7	223.7	220.6	219.2	218.3
65°	200.2	197.8	194.3	192.9	192.2
67.5°	173.1	171.0	167.7	166.1	165.8
70°	146.1	143.9	140.2	139.2	139.0
72.5°	119.0	117.1	113.6	112.7	112.7
75°	92.7	91.0	88.0	87.0	87.0
77.5°	67.7	66.3	64.0	62.8	62.8
80°	45.2	44.2	42.1	41.2	40.9
82.5°	26.1	25.6	23.8	22.8	23.3
85°	12.0	11.5	10.6	9.4	9.6
87.5°	3.1	2.8	2.1	1.6	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)