

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: P973483

Luminaire Tested: FLR2-14-30-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973483
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: FLR2-14-30-L950-CP187
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

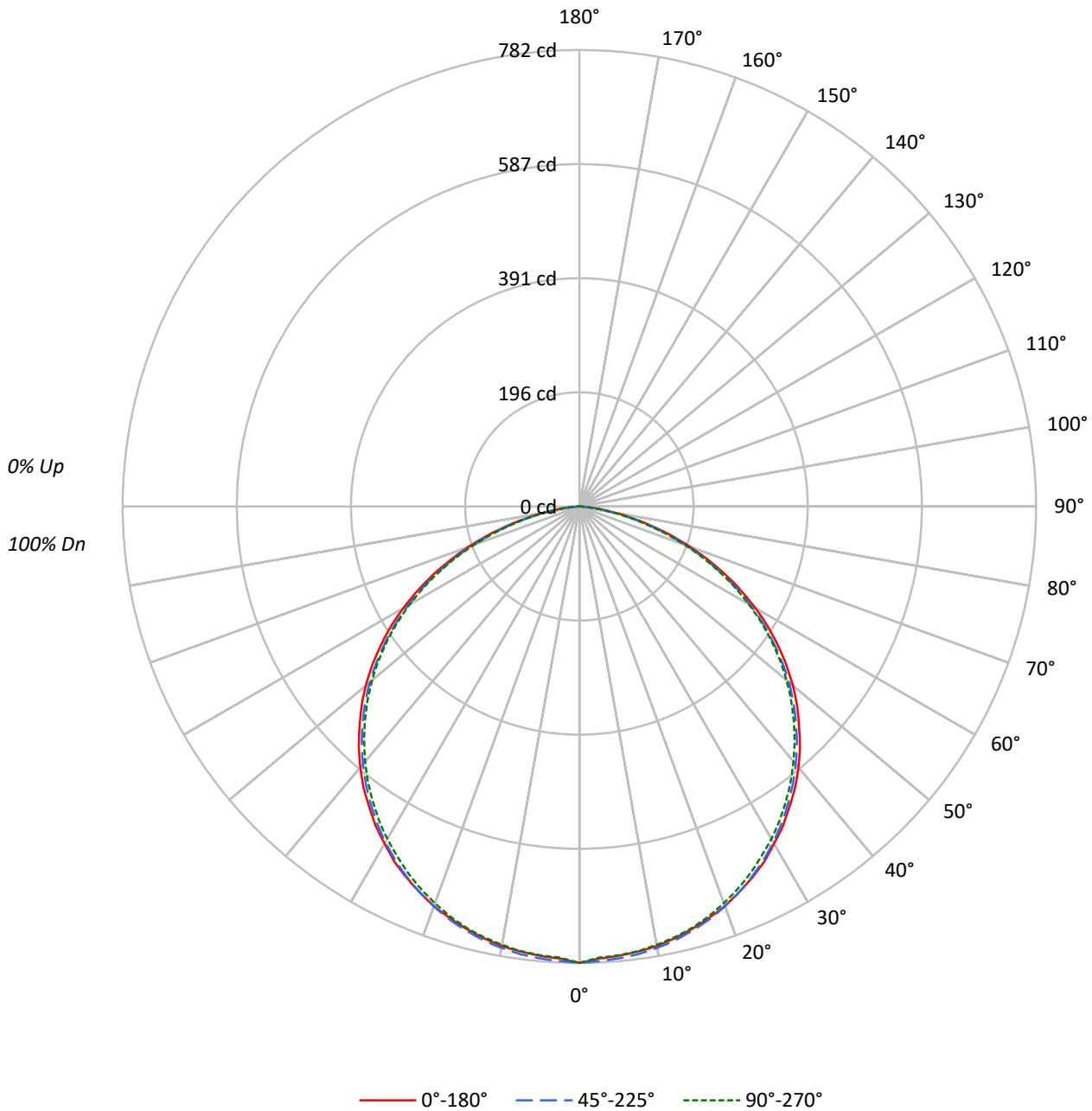
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2188.4 lumens
Efficiency: N/A
Efficacy: 91.6 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): 23.9
Input Voltage (V): 120
Input Current (A_{in}): 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2104	2104	2104
5°	2088	2100	2085
10°	2090	2099	2084
15°	2086	2094	2082
20°	2086	2088	2071
25°	2081	2078	2058
30°	2073	2064	2043
35°	2061	2046	2025
40°	2050	2025	2004
45°	2025	1996	1975
50°	1998	1962	1939
55°	1948	1902	1884
60°	1872	1820	1805
65°	1754	1702	1684
70°	1581	1518	1505
75°	1326	1258	1245
80°	962	897	872
85°	509	451	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	212.7	9.7
20°-30°	323.1	14.8
30°-40°	390.9	17.9
40°-50°	406.2	18.6
50°-60°	363.7	16.6
60°-70°	265.3	12.1
70°-80°	130.6	6.0
80°-90°	21.8	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°	609.9	27.9
0°-40°	1000.7	45.7
0°-60°	1770.6	80.9
0°-90°	2188.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	773	781	777	785	772	74
15°	749	756	752	758	747	212
25°	701	704	700	703	693	323
35°	628	629	623	625	616	393
45°	532	531	525	526	519	411
55°	415	412	406	404	402	371
65°	275	272	267	265	264	272
75°	128	125	121	120	120	136
85°	16	16	15	13	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.9	781.9	781.9	781.9	781.9
2.5°	775.1	783.8	779.6	787.4	773.5
5°	772.8	781.2	777.3	784.8	771.8
7.5°	768.9	777.7	773.5	780.6	768.3
10°	764.7	772.5	768.0	775.1	762.5
12.5°	757.3	765.0	760.8	767.3	755.7
15°	748.9	755.7	751.8	758.3	747.2
17.5°	739.2	745.6	741.4	747.2	736.2
20°	728.5	733.7	729.1	734.0	723.3
22.5°	715.2	720.1	715.2	718.4	709.1
25°	701.0	704.5	699.7	702.9	693.2
27.5°	685.8	687.7	682.8	685.4	675.4
30°	667.0	669.3	664.1	667.3	657.6
32.5°	648.9	650.2	644.3	646.9	638.2
35°	627.5	628.8	622.7	625.2	616.5
37.5°	607.1	606.8	600.3	601.9	594.5
40°	583.5	583.2	576.4	577.7	570.5
42.5°	559.2	557.9	551.5	552.1	545.6
45°	532.0	531.4	524.6	525.6	519.1
47.5°	505.8	503.9	497.1	497.4	491.9
50°	477.3	474.4	468.6	468.0	463.1
52.5°	446.9	443.7	437.2	436.6	433.0
55°	415.2	411.6	405.5	404.5	401.6
57.5°	382.5	378.0	373.1	371.2	368.9
60°	347.9	343.7	338.2	336.2	335.3
62.5°	312.0	307.8	303.6	301.6	300.3
65°	275.4	272.2	267.3	265.4	264.4
67.5°	238.2	235.3	230.7	228.5	228.2
70°	201.0	198.1	192.9	191.6	191.3
72.5°	163.8	161.2	156.3	155.0	155.0
75°	127.5	125.2	121.0	119.7	119.7
77.5°	93.2	91.3	88.0	86.4	86.4
80°	62.1	60.8	57.9	56.6	56.3
82.5°	35.9	35.3	32.7	31.4	32.0
85°	16.5	15.9	14.6	12.9	13.3
87.5°	4.2	3.9	2.9	2.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)