

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: P973486

Luminaire Tested: FLR2-14-30-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973486
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-CP250
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

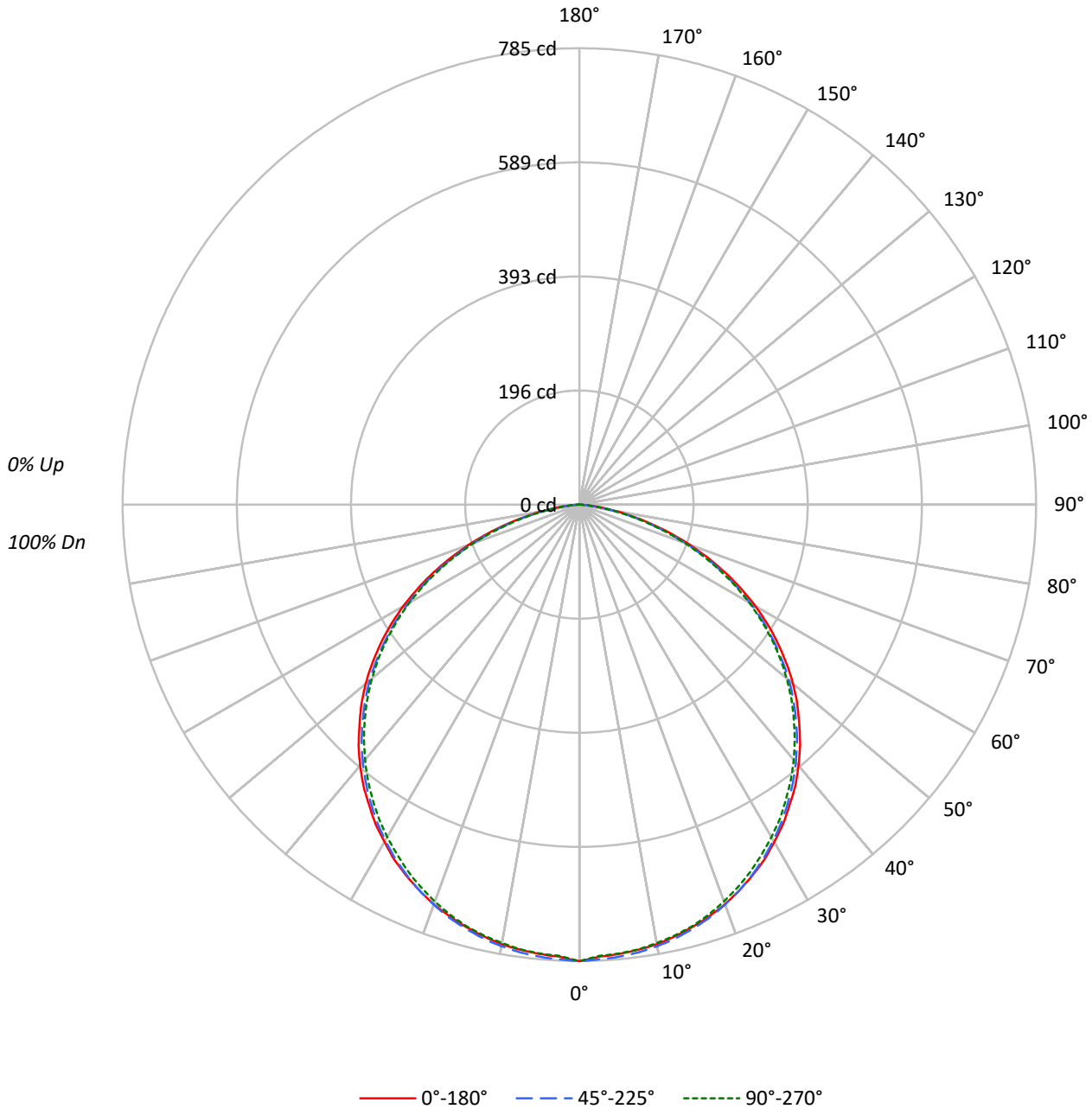
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2198.0 lumens
Efficiency: N/A
Efficacy: 92.0 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): 23.9
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

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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°	2113	2113	2113
5°	2097	2109	2094
10°	2099	2108	2093
15°	2096	2104	2091
20°	2095	2097	2080
25°	2091	2087	2067
30°	2082	2073	2052
35°	2071	2054	2034
40°	2059	2034	2013
45°	2034	2005	1984
50°	2007	1971	1948
55°	1956	1911	1893
60°	1880	1828	1813
65°	1761	1710	1691
70°	1589	1524	1511
75°	1332	1264	1251
80°	967	902	877
85°	513	451	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.4
10°-20°	213.6	9.7
20°-30°	324.5	14.8
30°-40°	392.6	17.9
40°-50°	408.0	18.6
50°-60°	365.3	16.6
60°-70°	266.4	12.1
70°-80°	131.2	6.0
80°-90°	21.9	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°	612.6	27.9
0°-40°	1005.1	45.7
0°-60°	1778.5	80.9
0°-90°	2198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	776	785	781	788	775	74
15°	752	759	755	762	751	212
25°	704	708	703	706	696	325
35°	630	632	625	628	619	395
45°	534	534	527	528	521	413
55°	417	414	407	406	403	372
65°	277	273	268	266	266	273
75°	128	126	122	120	120	137
85°	17	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°	785.3	785.3	785.3	785.3	785.3
2.5°	778.5	787.3	783.1	790.9	776.9
5°	776.2	784.7	780.8	788.3	775.3
7.5°	772.3	781.1	776.9	784.0	771.7
10°	768.1	775.9	771.4	778.5	765.8
12.5°	760.6	768.4	764.2	770.7	759.0
15°	752.2	759.0	755.1	761.6	750.6
17.5°	742.4	748.9	744.7	750.6	739.5
20°	731.7	736.9	732.4	737.2	726.5
22.5°	718.4	723.3	718.4	721.6	712.2
25°	704.1	707.6	702.8	706.0	696.3
27.5°	688.8	690.7	685.9	688.5	678.4
30°	669.9	672.2	667.0	670.3	660.5
32.5°	651.7	653.0	647.2	649.8	641.0
35°	630.3	631.6	625.4	628.0	619.2
37.5°	609.8	609.5	603.0	604.6	597.1
40°	586.1	585.8	578.9	580.2	573.1
42.5°	561.7	560.4	553.9	554.5	548.0
45°	534.4	533.7	526.9	527.9	521.4
47.5°	508.1	506.1	499.3	499.6	494.1
50°	479.5	476.5	470.7	470.0	465.2
52.5°	448.9	445.7	439.2	438.5	434.9
55°	417.0	413.5	407.3	406.3	403.4
57.5°	384.2	379.7	374.8	372.8	370.6
60°	349.4	345.2	339.7	337.7	336.8
62.5°	313.4	309.1	304.9	303.0	301.7
65°	276.6	273.4	268.5	266.5	265.6
67.5°	239.2	236.3	231.8	229.5	229.2
70°	201.9	198.9	193.7	192.4	192.1
72.5°	164.5	161.9	157.0	155.7	155.7
75°	128.1	125.8	121.6	120.3	120.3
77.5°	93.6	91.7	88.4	86.8	86.8
80°	62.4	61.1	58.2	56.9	56.6
82.5°	36.1	35.4	32.8	31.5	32.2
85°	16.6	15.9	14.6	13.0	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)