

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: P973408

Luminaire Tested: FLR2-14-30-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973408
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-L935-CA080
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 90CRI with Clear Acrylic (0.080" thickness)

Light Source:
Ballast/Driver: -

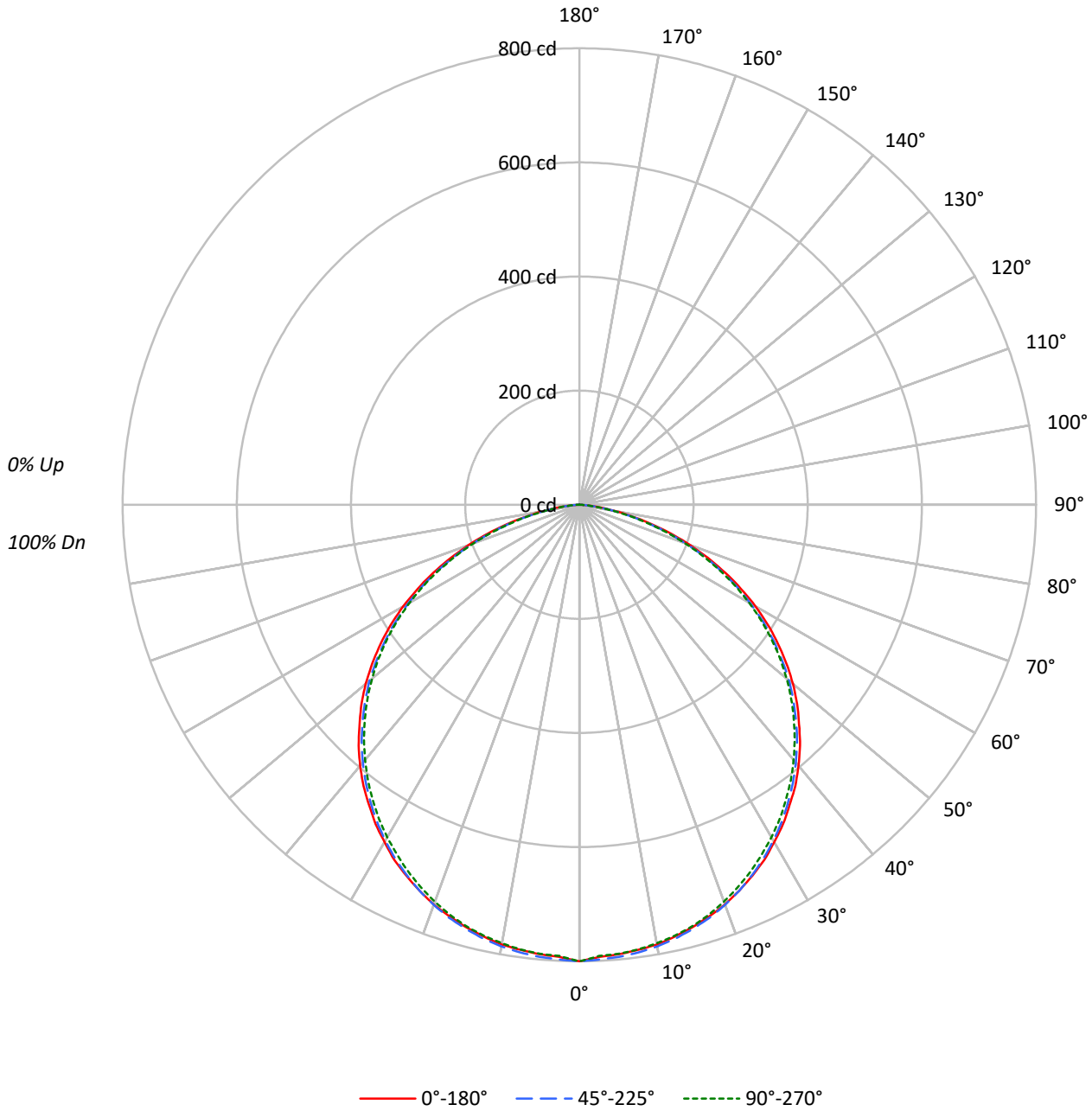
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.8 lumens
Efficiency: N/A
Efficacy: 93.7 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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CATALOG NUMBER: FLR2-14-30-L935-CA080

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°	2153	2153	2153
5°	2137	2149	2134
10°	2139	2148	2132
15°	2135	2143	2131
20°	2135	2137	2120
25°	2130	2126	2107
30°	2121	2112	2091
35°	2110	2094	2073
40°	2098	2072	2051
45°	2072	2043	2022
50°	2045	2008	1984
55°	1994	1947	1928
60°	1917	1863	1847
65°	1795	1742	1723
70°	1618	1553	1541
75°	1357	1288	1275
80°	986	919	893
85°	522	460	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2072 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.4
10°-20°	217.7	9.7
20°-30°	330.7	14.8
30°-40°	400.0	17.9
40°-50°	415.8	18.6
50°-60°	372.2	16.6
60°-70°	271.5	12.1
70°-80°	133.7	6.0
80°-90°	22.4	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°	624.2	27.9
0°-40°	1024.2	45.7
0°-60°	1812.2	80.9
0°-90°	2239.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	791	800	796	803	790	75
15°	766	773	769	776	765	216
25°	717	721	716	719	710	331
35°	642	644	637	640	631	402
45°	544	544	537	538	531	420
55°	425	421	415	414	411	379
65°	282	279	274	272	271	278
75°	130	128	124	123	123	139
85°	17	16	15	13	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.2	800.2	800.2	800.2	800.2
2.5°	793.3	802.2	797.9	805.9	791.6
5°	791.0	799.6	795.6	803.2	790.0
7.5°	787.0	795.9	791.6	798.9	786.3
10°	782.7	790.6	786.0	793.3	780.4
12.5°	775.1	783.0	778.7	785.3	773.4
15°	766.4	773.4	769.4	776.0	764.8
17.5°	756.5	763.1	758.8	764.8	753.5
20°	745.6	750.9	746.2	751.2	740.3
22.5°	732.0	737.0	732.0	735.3	725.7
25°	717.4	721.1	716.1	719.4	709.5
27.5°	701.9	703.8	698.9	701.5	691.3
30°	682.6	685.0	679.7	683.0	673.0
32.5°	664.1	665.4	659.5	662.1	653.2
35°	642.2	643.6	637.3	639.9	631.0
37.5°	621.4	621.0	614.4	616.1	608.5
40°	597.2	596.9	589.9	591.2	583.9
42.5°	572.3	571.0	564.4	565.1	558.4
45°	544.5	543.9	536.9	537.9	531.3
47.5°	517.7	515.7	508.8	509.1	503.5
50°	488.5	485.6	479.6	478.9	474.0
52.5°	457.4	454.1	447.5	446.8	443.2
55°	425.0	421.3	415.0	414.0	411.0
57.5°	391.5	386.9	381.9	379.9	377.6
60°	356.1	351.8	346.1	344.1	343.1
62.5°	319.3	315.0	310.7	308.7	307.4
65°	281.9	278.6	273.6	271.6	270.6
67.5°	243.8	240.8	236.2	233.8	233.5
70°	205.7	202.7	197.4	196.1	195.8
72.5°	167.6	164.9	160.0	158.7	158.7
75°	130.5	128.2	123.9	122.6	122.6
77.5°	95.4	93.4	90.1	88.4	88.4
80°	63.6	62.3	59.3	58.0	57.6
82.5°	36.8	36.1	33.5	32.1	32.8
85°	16.9	16.2	14.9	13.2	13.6
87.5°	4.3	4.0	3.0	2.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)