

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: P973351

Luminaire Tested: FLR2-14-30-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973351
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-L930-CP080
Description: 1*4 FLR-2.0 3000 LUMEN at 3000CCT & 90 CRI with Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

Summary

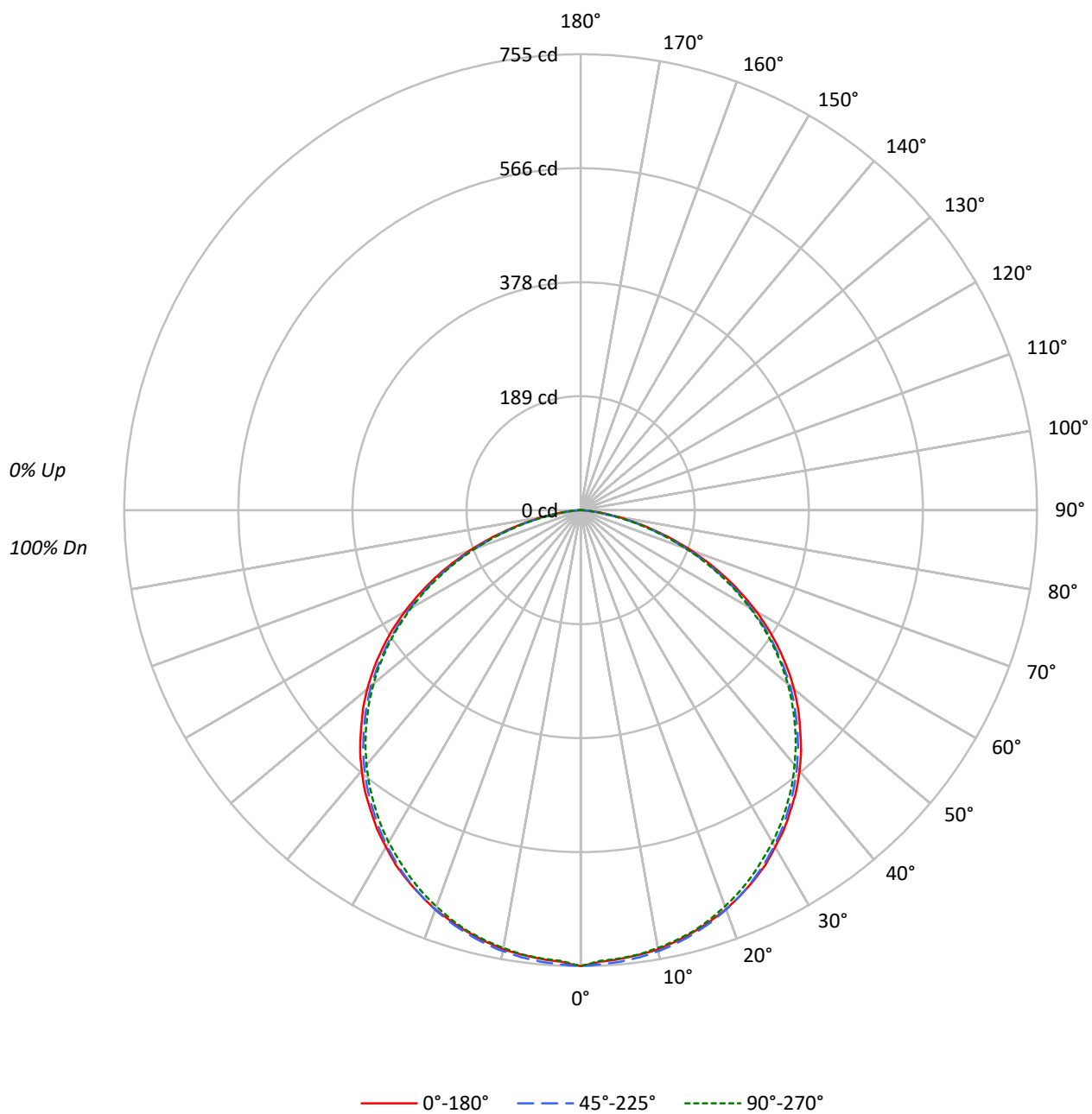
Lumens per Lamp: N/A
Luminaire Lumens: 2113.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	2032	2032	2032
5°	2016	2028	2013
10°	2018	2026	2012
15°	2014	2022	2010
20°	2014	2016	2000
25°	2010	2006	1988
30°	2001	1992	1973
35°	1990	1975	1956
40°	1979	1955	1935
45°	1955	1928	1907
50°	1930	1894	1872
55°	1881	1837	1819
60°	1808	1758	1742
65°	1693	1643	1626
70°	1527	1465	1453
75°	1280	1215	1202
80°	930	866	843
85°	491	435	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1955 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.4
10°-20°	205.4	9.7
20°-30°	312.0	14.8
30°-40°	377.4	17.9
40°-50°	392.2	18.6
50°-60°	351.2	16.6
60°-70°	256.1	12.1
70°-80°	126.1	6.0
80°-90°	21.1	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°	588.9	27.9
0°-40°	966.3	45.7
0°-60°	1709.7	80.9
0°-90°	2113.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	746	754	751	758	745	71
15°	723	730	726	732	722	204
25°	677	680	676	679	669	312
35°	606	607	601	604	595	379
45°	514	513	507	508	501	397
55°	401	398	392	391	388	358
65°	266	263	258	256	255	263
75°	123	121	117	116	116	131
85°	16	15	14	12	13	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.0	755.0	755.0	755.0	755.0
2.5°	748.4	756.9	752.8	760.3	746.9
5°	746.2	754.4	750.6	757.8	745.3
7.5°	742.5	750.9	746.9	753.7	741.9
10°	738.4	745.9	741.5	748.4	736.2
12.5°	731.2	738.7	734.7	740.9	729.7
15°	723.1	729.7	725.9	732.2	721.5
17.5°	713.7	720.0	715.9	721.5	710.9
20°	703.4	708.4	704.0	708.7	698.4
22.5°	690.6	695.3	690.6	693.7	684.7
25°	676.9	680.3	675.6	678.7	669.4
27.5°	662.2	664.1	659.4	661.9	652.2
30°	644.1	646.2	641.2	644.4	635.0
32.5°	626.6	627.8	622.2	624.7	616.2
35°	605.9	607.2	601.2	603.7	595.3
37.5°	586.2	585.9	579.7	581.2	574.1
40°	563.4	563.1	556.6	557.8	550.9
42.5°	540.0	538.7	532.5	533.1	526.9
45°	513.7	513.1	506.6	507.5	501.2
47.5°	488.4	486.6	480.0	480.3	475.0
50°	460.9	458.1	452.5	451.9	447.2
52.5°	431.6	428.4	422.2	421.6	418.1
55°	400.9	397.5	391.6	390.6	387.8
57.5°	369.4	365.0	360.3	358.4	356.2
60°	335.9	331.9	326.6	324.7	323.7
62.5°	301.2	297.2	293.1	291.2	290.0
65°	265.9	262.8	258.1	256.2	255.3
67.5°	230.0	227.2	222.8	220.6	220.3
70°	194.1	191.2	186.2	185.0	184.7
72.5°	158.1	155.6	150.9	149.7	149.7
75°	123.1	120.9	116.9	115.6	115.6
77.5°	90.0	88.1	85.0	83.4	83.4
80°	60.0	58.7	55.9	54.7	54.4
82.5°	34.7	34.1	31.6	30.3	30.9
85°	15.9	15.3	14.1	12.5	12.8
87.5°	4.1	3.7	2.8	2.2	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)