

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: P973492

Luminaire Tested: FLR2-14-30-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973492
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-CA080
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90CRI with Clear Acrylic (0.080" thickness)

Light Source:
Ballast/Driver: -

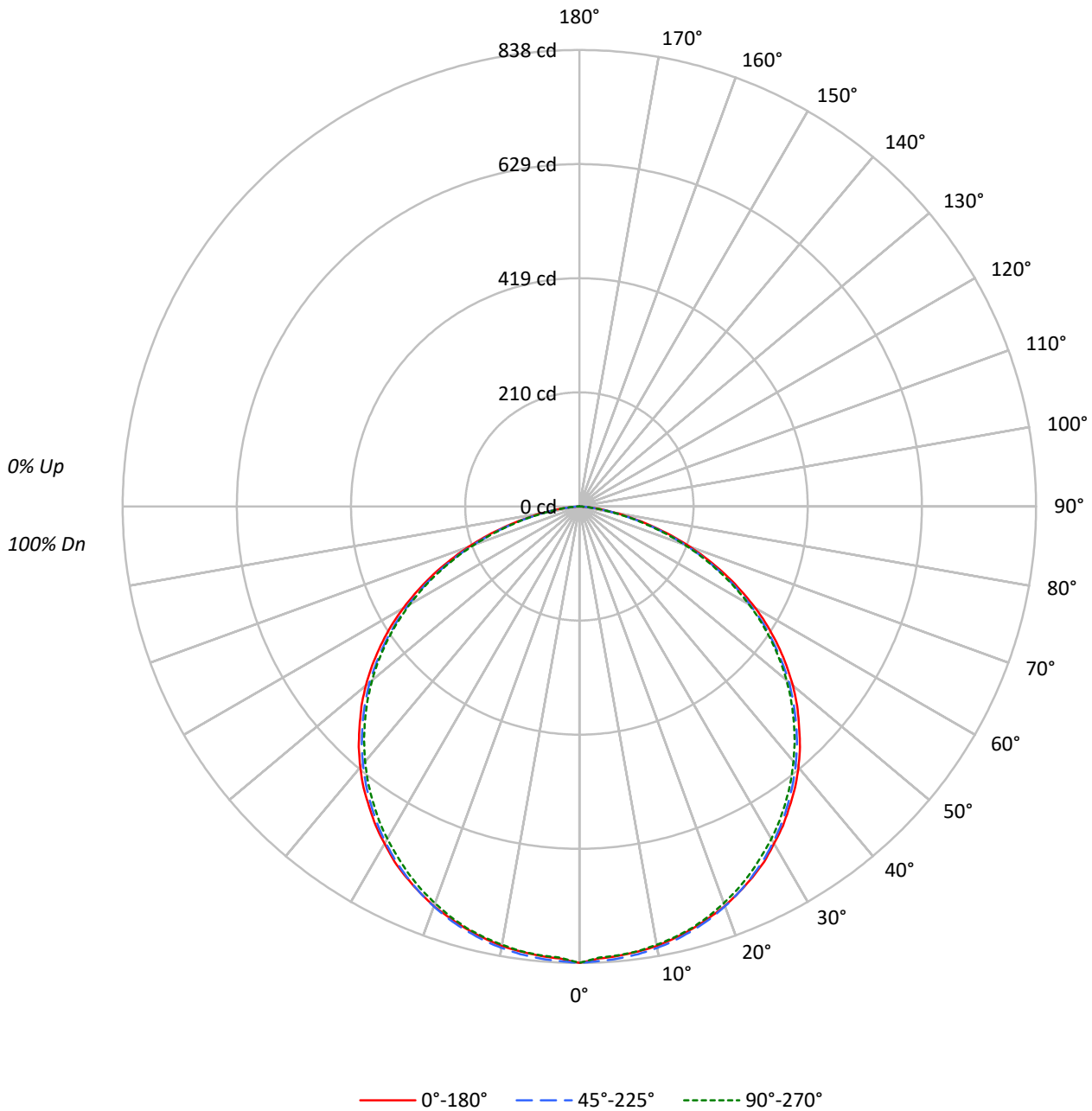
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.1 lumens
Efficiency: N/A
Efficacy: 98.1 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°	2255	2255	2255
5°	2237	2250	2234
10°	2239	2249	2233
15°	2236	2244	2231
20°	2236	2238	2220
25°	2230	2226	2206
30°	2221	2211	2190
35°	2209	2192	2170
40°	2197	2170	2148
45°	2170	2140	2117
50°	2141	2102	2078
55°	2088	2038	2019
60°	2006	1950	1934
65°	1879	1824	1804
70°	1695	1626	1613
75°	1420	1349	1334
80°	1032	962	934
85°	546	482	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.4
10°-20°	227.9	9.7
20°-30°	346.3	14.8
30°-40°	418.9	17.9
40°-50°	435.3	18.6
50°-60°	389.7	16.6
60°-70°	284.3	12.1
70°-80°	140.0	6.0
80°-90°	23.4	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°	653.5	27.9
0°-40°	1072.4	45.7
0°-60°	1897.5	80.9
0°-90°	2345.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	828	837	833	841	827	79
15°	802	810	806	813	801	227
25°	751	755	750	753	743	346
35°	672	674	667	670	661	421
45°	570	570	562	563	556	440
55°	445	441	434	434	430	397
65°	295	292	286	284	283	292
75°	137	134	130	128	128	146
85°	18	17	16	14	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.9	837.9	837.9	837.9	837.9
2.5°	830.6	840.0	835.5	843.8	828.9
5°	828.2	837.2	833.0	841.0	827.1
7.5°	824.0	833.4	828.9	836.5	823.3
10°	819.5	827.8	823.0	830.6	817.1
12.5°	811.5	819.9	815.3	822.3	809.8
15°	802.5	809.8	805.6	812.6	800.8
17.5°	792.1	799.0	794.5	800.8	789.0
20°	780.7	786.2	781.4	786.6	775.1
22.5°	766.4	771.6	766.4	769.9	759.9
25°	751.2	755.0	749.8	753.3	742.9
27.5°	734.9	737.0	731.8	734.5	723.8
30°	714.8	717.2	711.6	715.1	704.7
32.5°	695.3	696.7	690.5	693.3	683.9
35°	672.5	673.8	667.3	670.0	660.7
37.5°	650.6	650.3	643.3	645.1	637.1
40°	625.3	624.9	617.7	619.0	611.4
42.5°	599.3	597.9	591.0	591.7	584.7
45°	570.1	569.5	562.2	563.2	556.3
47.5°	542.1	540.0	532.7	533.0	527.1
50°	511.5	508.4	502.2	501.5	496.3
52.5°	478.9	475.5	468.5	467.8	464.0
55°	445.0	441.1	434.5	433.5	430.4
57.5°	409.9	405.1	399.9	397.8	395.4
60°	372.8	368.3	362.4	360.3	359.3
62.5°	334.3	329.8	325.3	323.2	321.8
65°	295.1	291.7	286.5	284.4	283.3
67.5°	255.2	252.1	247.3	244.8	244.5
70°	215.4	212.2	206.7	205.3	205.0
72.5°	175.5	172.7	167.5	166.1	166.1
75°	136.6	134.2	129.7	128.3	128.3
77.5°	99.9	97.8	94.3	92.6	92.6
80°	66.6	65.2	62.1	60.7	60.3
82.5°	38.5	37.8	35.0	33.6	34.3
85°	17.7	17.0	15.6	13.9	14.2
87.5°	4.5	4.2	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)