

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: P973432

Luminaire Tested: FLR2-14-30-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973432
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-L840-CA080
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI with Clear Acrylic (0.080" thickness)

Light Source:
Ballast/Driver: -

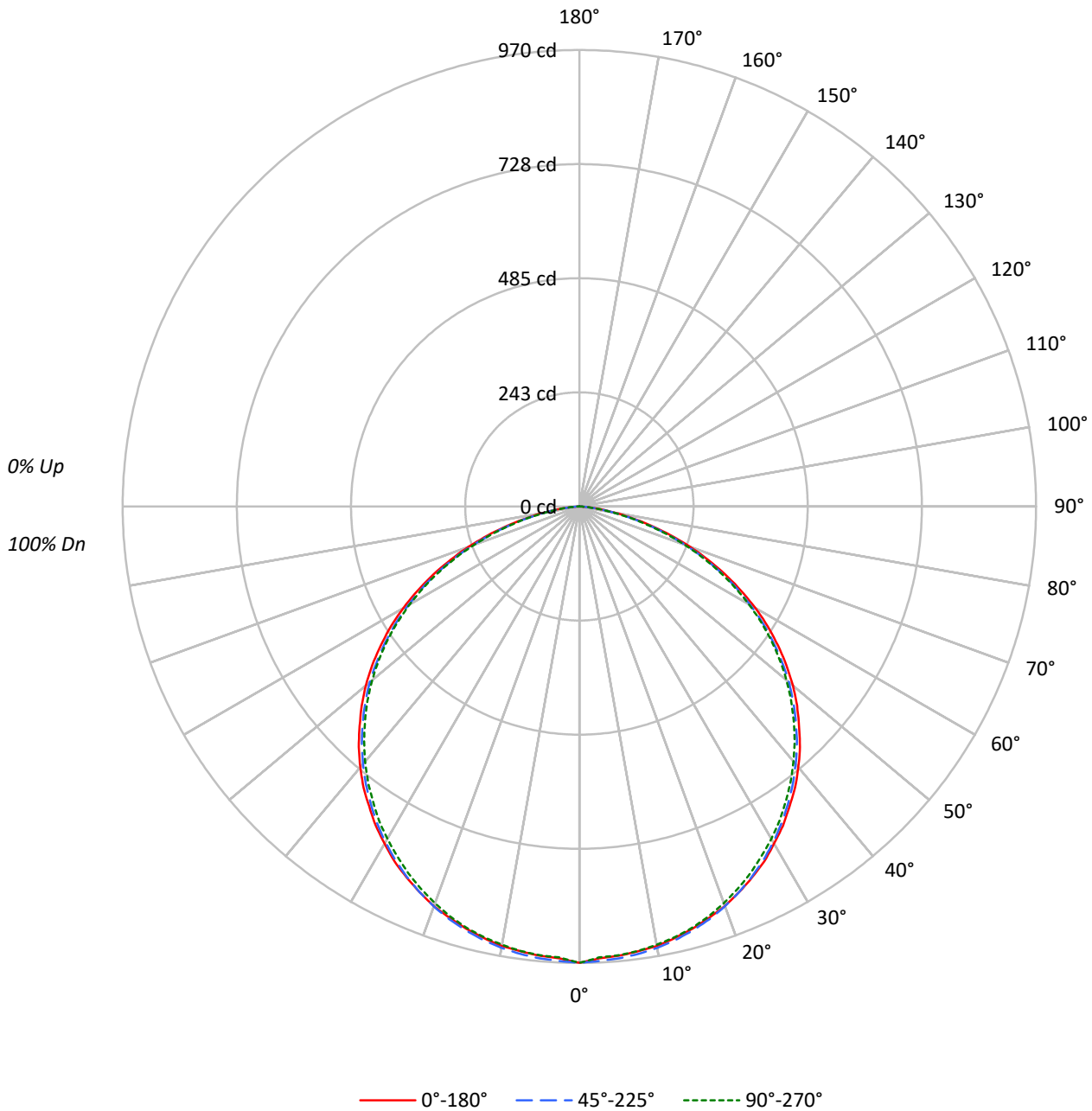
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 113.6 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 (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°	2609	2609	2609
5°	2589	2604	2586
10°	2591	2602	2584
15°	2587	2598	2582
20°	2587	2590	2569
25°	2581	2576	2553
30°	2570	2559	2534
35°	2556	2537	2512
40°	2542	2511	2486
45°	2511	2476	2450
50°	2478	2433	2404
55°	2416	2359	2337
60°	2322	2257	2238
65°	2175	2111	2088
70°	1961	1882	1866
75°	1644	1561	1544
80°	1195	1113	1082
85°	633	559	509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	3.4
10°-20°	263.8	9.7
20°-30°	400.7	14.8
30°-40°	484.7	17.9
40°-50°	503.8	18.6
50°-60°	451.1	16.6
60°-70°	329.0	12.1
70°-80°	162.0	6.0
80°-90°	27.1	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°	756.3	27.9
0°-40°	1241.1	45.7
0°-60°	2195.9	80.9
0°-90°	2714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	958	969	964	973	957	91
15°	929	937	932	940	927	262
25°	869	874	868	872	860	401
35°	778	780	772	775	765	487
45°	660	659	651	652	644	509
55°	515	510	503	502	498	460
65°	342	338	332	329	328	337
75°	158	155	150	148	148	169
85°	20	20	18	16	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	969.7	969.7	969.7	969.7	969.7
2.5°	961.3	972.1	966.9	976.5	959.3
5°	958.4	968.9	964.1	973.3	957.2
7.5°	953.6	964.5	959.3	968.1	952.8
10°	948.4	958.0	952.4	961.3	945.6
12.5°	939.2	948.8	943.6	951.6	937.2
15°	928.7	937.2	932.4	940.4	926.7
17.5°	916.7	924.7	919.5	926.7	913.1
20°	903.5	909.9	904.3	910.3	897.0
22.5°	887.0	893.0	887.0	891.0	879.4
25°	869.3	873.8	867.7	871.8	859.7
27.5°	850.5	852.9	846.9	850.1	837.6
30°	827.2	830.0	823.6	827.6	815.6
32.5°	804.7	806.3	799.1	802.3	791.5
35°	778.2	779.8	772.2	775.4	764.6
37.5°	753.0	752.6	744.5	746.5	737.3
40°	723.7	723.3	714.8	716.4	707.6
42.5°	693.6	691.9	683.9	684.7	676.7
45°	659.8	659.0	650.6	651.8	643.8
47.5°	627.3	624.9	616.5	616.9	610.1
50°	592.0	588.4	581.2	580.4	574.3
52.5°	554.3	550.3	542.2	541.4	537.0
55°	514.9	510.5	502.9	501.7	498.1
57.5°	474.4	468.8	462.8	460.4	457.6
60°	431.5	426.2	419.4	417.0	415.8
62.5°	386.9	381.7	376.5	374.1	372.5
65°	341.6	337.5	331.5	329.1	327.9
67.5°	295.4	291.8	286.2	283.4	283.0
70°	249.2	245.6	239.2	237.6	237.2
72.5°	203.1	199.9	193.9	192.3	192.3
75°	158.1	155.3	150.1	148.5	148.5
77.5°	115.6	113.2	109.2	107.2	107.2
80°	77.1	75.5	71.8	70.2	69.8
82.5°	44.6	43.7	40.5	38.9	39.7
85°	20.5	19.7	18.1	16.1	16.5
87.5°	5.2	4.8	3.6	2.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)