

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P275035

Luminaire Tested: **J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4347.8 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

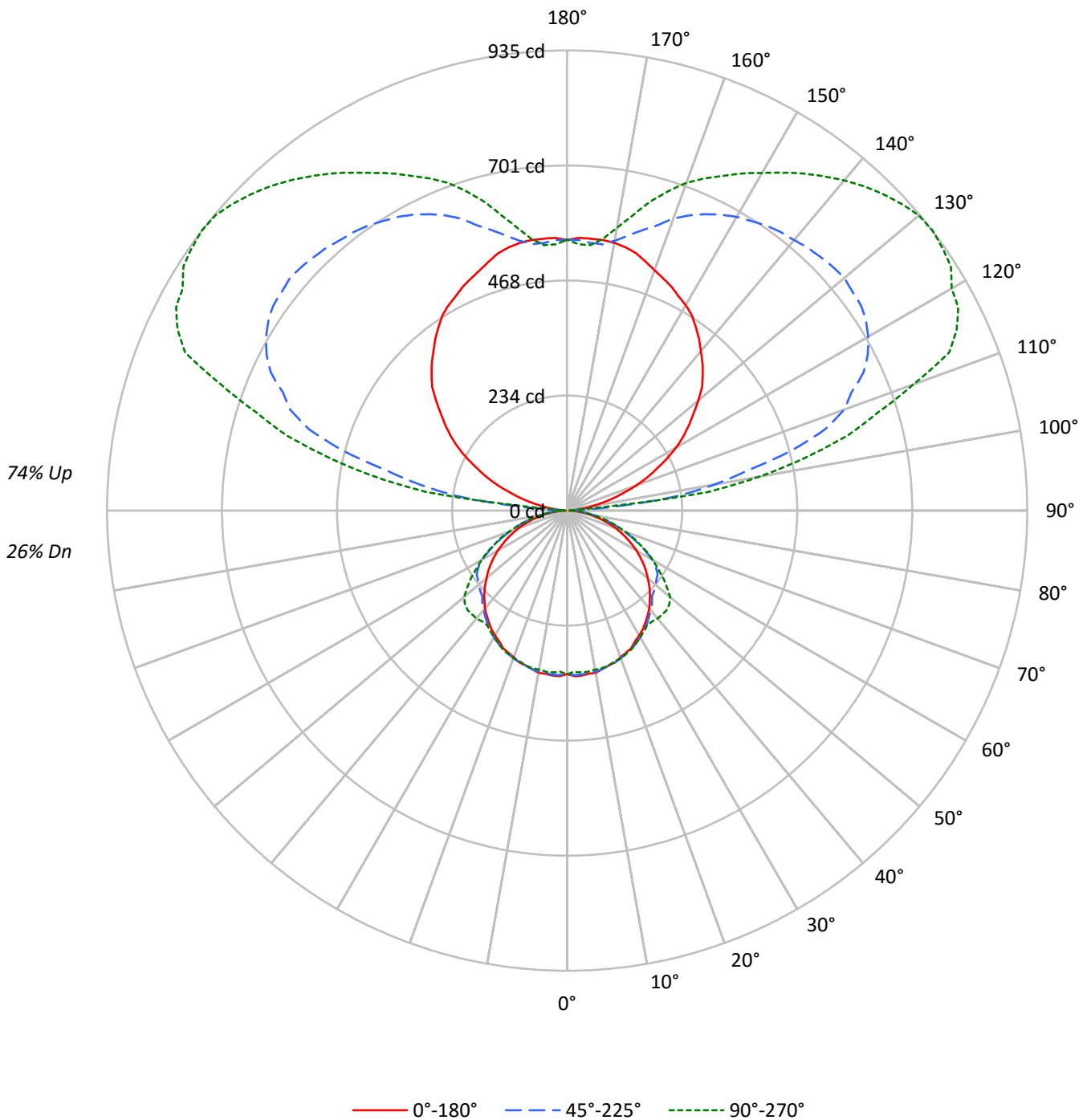
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275035

CATALOG NUMBER: J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P275035

CATALOG NUMBER: J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)

**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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21				
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17				
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14				
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12				
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10				
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9				
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8				
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7				
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6				
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2683	2683	2683
5°	2729	2711	2675
10°	2742	2724	2688
15°	2722	2722	2722
20°	2723	2741	2741
25°	2744	2764	2764
30°	2729	2770	2770
35°	2733	2776	2798
40°	2737	2783	3015
45°	2714	2789	3266
50°	2680	2956	3427
55°	2663	3158	3346
60°	2629	3232	3232
65°	2564	3068	3110
70°	2493	2908	2960
75°	2333	2745	2813
80°	2148	2659	2557
85°	2038	2853	2445



TEST NUMBER: P275035

CATALOG NUMBER: J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	0.7
10°-20°	92.0	2.1
20°-30°	142.1	3.3
30°-40°	176.3	4.1
40°-50°	197.3	4.5
50°-60°	192.7	4.4
60°-70°	152.0	3.5
70°-80°	92.0	2.1
80°-90°	32.8	0.8
90°-100°	112.9	2.6
100°-110°	436.7	10.0
110°-120°	600.2	13.8
120°-130°	607.2	14.0
130°-140°	538.2	12.4
140°-150°	425.6	9.8
150°-160°	297.2	6.8
160°-170°	168.2	3.9
170°-180°	52.7	1.2
0°-30°	265.8	6.1
0°-40°	442.1	10.2
0°-60°	832.1	19.1
0°-90°	1108.9	25.5
90°-120°	1149.9	26.4
90°-150°	2720.8	62.6
90°-180°	3239.0	74.5
0°-180°	4347.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	337	332	334	332	330	32
15°	326	324	326	326	326	92
25°	308	304	310	310	310	141
35°	277	277	282	284	284	174
45°	238	240	244	275	286	183
55°	189	191	224	238	238	169
65°	134	141	161	163	163	132
75°	75	88	88	90	90	79
85°	22	35	31	29	26	23
90°	4	13	11	2	2	4
95°	18	88	106	22	22	22
105°	97	312	473	546	590	103
115°	200	422	664	823	874	200
125°	302	488	728	887	931	270
135°	390	537	728	871	909	300
145°	456	550	706	810	836	285
155°	502	537	664	737	750	231
165°	541	539	590	640	649	152
175°	554	548	546	546	541	53
180°	550	550	550	550	550	



TEST NUMBER: P275035

CATALOG NUMBER: J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	332.3	332.3	332.3	332.3	332.3
2.5°	336.7	332.3	334.5	332.3	327.9
5°	336.7	332.3	334.5	332.3	330.1
7.5°	334.5	332.3	332.3	330.1	330.1
10°	334.5	330.1	332.3	330.1	327.9
12.5°	330.1	327.9	330.1	327.9	327.9
15°	325.7	323.5	325.7	325.7	325.7
17.5°	323.5	319.1	323.5	323.5	321.3
20°	316.9	314.7	319.1	319.1	319.1
22.5°	312.5	310.3	314.7	314.7	314.7
25°	308.1	303.7	310.3	310.3	310.3
27.5°	299.3	299.3	303.7	305.9	303.7
30°	292.7	290.5	297.1	299.3	297.1
32.5°	286.1	283.9	290.5	292.7	290.5
35°	277.3	277.3	281.7	283.9	283.9
37.5°	268.5	268.5	272.9	275.1	283.9
40°	259.7	259.7	264.1	277.3	286.1
42.5°	248.7	248.7	255.3	275.1	286.1
45°	237.7	239.9	244.3	275.1	286.1
47.5°	226.6	228.8	239.9	272.9	281.7
50°	213.4	217.8	235.4	266.3	272.9
52.5°	202.4	204.6	228.8	255.3	255.3
55°	189.2	191.4	224.4	237.7	237.7
57.5°	176.0	178.2	213.4	217.8	217.8
60°	162.8	165.0	200.2	200.2	200.2
62.5°	147.4	151.8	180.4	182.6	182.6
65°	134.2	140.8	160.6	162.8	162.8
67.5°	118.8	129.8	143.0	145.2	145.2
70°	105.6	118.8	123.2	125.4	125.4
72.5°	90.2	103.4	105.6	107.8	107.8
75°	74.8	88.0	88.0	90.2	90.2
77.5°	59.4	70.4	72.6	72.6	72.6
80°	46.2	52.8	57.2	55.0	55.0
82.5°	33.0	41.8	41.8	41.8	39.6
85°	22.0	35.2	30.8	28.6	26.4
87.5°	13.2	30.8	17.6	15.4	15.4
90°	4.4	13.2	11.0	2.2	2.2
92.5°	8.8	22.0	11.0	8.8	6.6
95°	17.6	88.0	105.6	22.0	22.0
97.5°	33.0	147.4	226.6	268.5	288.3
100°	50.6	220.0	303.7	371.9	396.1
102.5°	72.6	266.3	374.1	459.9	495.1
105°	96.8	312.5	473.1	545.7	589.7
107.5°	121.0	347.7	550.1	631.5	662.3
110°	149.6	376.3	598.5	739.4	748.2



TEST NUMBER: P275035

CATALOG NUMBER: J3-CL-50L92765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	398.3	624.9	792.2	840.6
115°	200.2	422.5	664.5	823.0	873.6
117.5°	228.8	440.1	688.7	840.6	895.6
120°	255.3	455.5	706.3	862.6	902.2
122.5°	279.5	473.1	719.6	880.2	924.2
125°	301.5	488.5	728.4	886.8	930.8
127.5°	323.5	501.7	730.6	889.0	935.2
130°	347.7	514.9	735.0	886.8	933.0
132.5°	371.9	528.1	732.8	880.2	922.0
135°	389.5	536.9	728.4	871.4	908.8
137.5°	407.1	543.5	724.0	858.2	893.4
140°	422.5	547.9	717.4	842.8	875.8
142.5°	440.1	550.1	713.0	827.4	856.0
145°	455.5	550.1	706.3	809.8	836.2
147.5°	470.9	547.9	697.5	792.2	814.2
150°	481.9	543.5	688.7	774.6	792.2
152.5°	490.7	539.1	677.7	754.8	772.4
155°	501.7	536.9	664.5	737.2	750.4
157.5°	510.5	536.9	649.1	717.4	730.6
160°	519.3	536.9	631.5	697.5	708.6
162.5°	530.3	536.9	607.3	668.9	679.9
165°	541.3	539.1	589.7	640.3	649.1
167.5°	547.9	539.1	572.1	605.1	613.9
170°	552.3	543.5	556.7	580.9	583.1
172.5°	554.5	547.9	545.7	556.7	556.7
175°	554.5	547.9	545.7	545.7	541.3
177.5°	554.5	550.1	550.1	547.9	541.3
180°	550.1	550.1	550.1	550.1	550.1

(END OF REPORT)