

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: P275025

Luminaire Tested: **J3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275025  
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-50L82765-1D-UNV-W2A-W-4 (3500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4688.5 lumens  
Efficiency: N/A  
Efficacy: 131.3 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

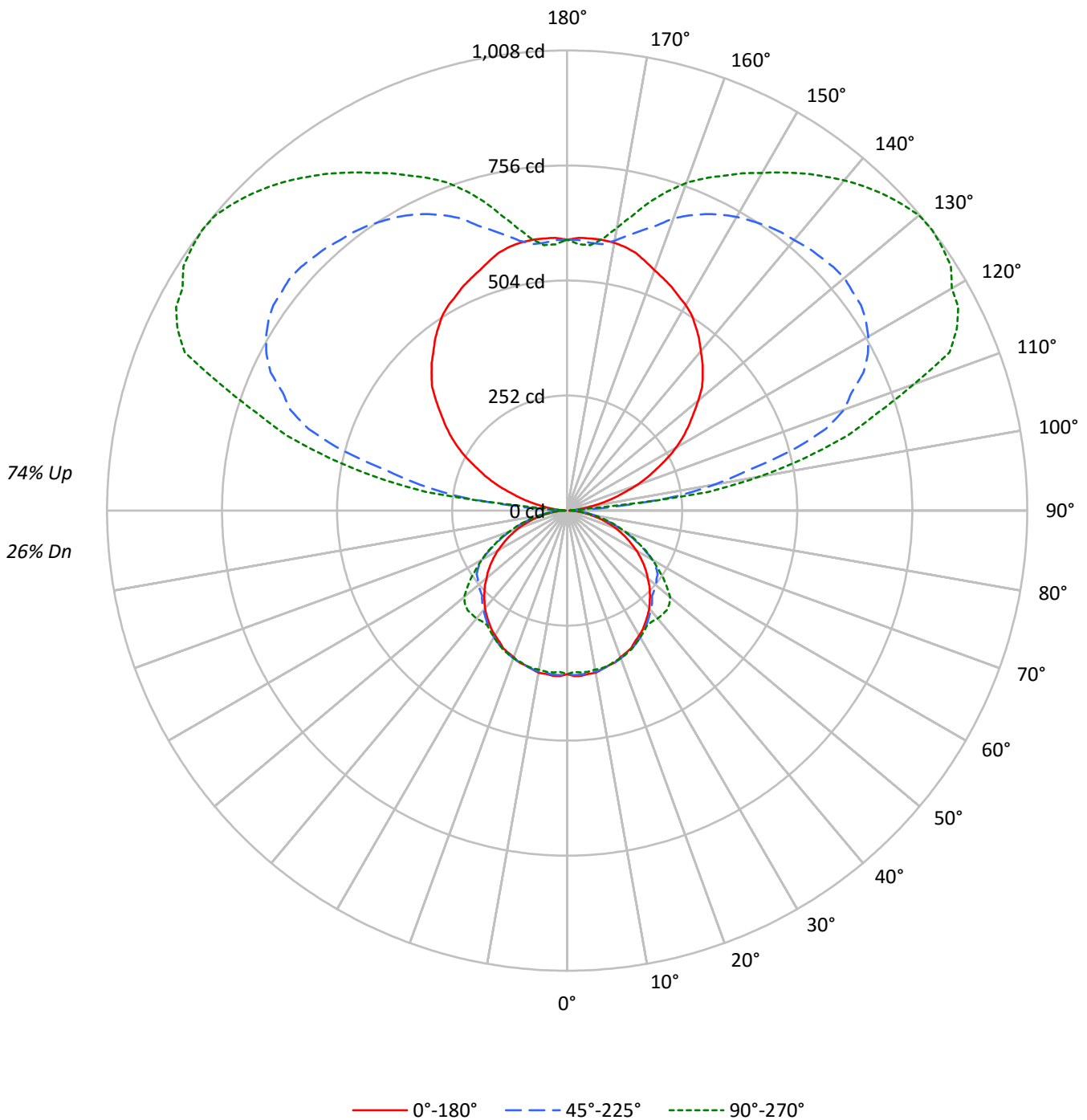
Input Watts (W): 35.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2893	2893	2893
5°	2942	2923	2884
10°	2957	2937	2899
15°	2935	2935	2935
20°	2936	2956	2956
25°	2959	2980	2980
30°	2942	2986	2986
35°	2947	2993	3017
40°	2951	3000	3251
45°	2926	3007	3522
50°	2891	3189	3695
55°	2873	3406	3607
60°	2835	3486	3486
65°	2764	3309	3354
70°	2688	3137	3194
75°	2517	2960	3035
80°	2315	2868	2757
85°	2195	3075	2640



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	0.7
10°-20°	99.2	2.1
20°-30°	153.3	3.3
30°-40°	190.1	4.1
40°-50°	212.7	4.5
50°-60°	207.9	4.4
60°-70°	164.0	3.5
70°-80°	99.2	2.1
80°-90°	35.3	0.8
90°-100°	121.8	2.6
100°-110°	471.0	10.0
110°-120°	647.2	13.8
120°-130°	654.8	14.0
130°-140°	580.3	12.4
140°-150°	459.0	9.8
150°-160°	320.5	6.8
160°-170°	181.4	3.9
170°-180°	56.9	1.2
0°-30°	286.6	6.1
0°-40°	476.7	10.2
0°-60°	897.3	19.1
0°-90°	1195.8	25.5
90°-120°	1240.0	26.4
90°-150°	2934.0	62.6
90°-180°	3493.0	74.5
0°-180°	4688.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	363	358	361	358	356	35
15°	351	349	351	351	351	99
25°	332	328	335	335	335	152
35°	299	299	304	306	306	187
45°	256	259	263	297	308	198
55°	204	206	242	256	256	182
65°	145	152	173	176	176	143
75°	81	95	95	97	97	85
85°	24	38	33	31	28	25
90°	5	14	12	2	2	5
95°	19	95	114	24	24	24
105°	104	337	510	588	636	111
115°	216	456	717	888	942	215
125°	325	527	785	956	1004	291
135°	420	579	785	940	980	324
145°	491	593	762	873	902	307
155°	541	579	717	795	809	249
165°	584	581	636	690	700	164
175°	598	591	588	588	584	57
180°	593	593	593	593	593	



TEST NUMBER: P275025

CATALOG NUMBER: J3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	358.3	358.3	358.3	358.3	358.3
2.5°	363.1	358.3	360.7	358.3	353.6
5°	363.1	358.3	360.7	358.3	355.9
7.5°	360.7	358.3	358.3	355.9	355.9
10°	360.7	355.9	358.3	355.9	353.6
12.5°	355.9	353.6	355.9	353.6	353.6
15°	351.2	348.8	351.2	351.2	351.2
17.5°	348.8	344.1	348.8	348.8	346.4
20°	341.7	339.3	344.1	344.1	344.1
22.5°	337.0	334.6	339.3	339.3	339.3
25°	332.2	327.5	334.6	334.6	334.6
27.5°	322.7	322.7	327.5	329.8	327.5
30°	315.6	313.2	320.3	322.7	320.3
32.5°	308.5	306.1	313.2	315.6	313.2
35°	299.0	299.0	303.7	306.1	306.1
37.5°	289.5	289.5	294.2	296.6	306.1
40°	280.0	280.0	284.7	299.0	308.5
42.5°	268.1	268.1	275.3	296.6	308.5
45°	256.3	258.6	263.4	296.6	308.5
47.5°	244.4	246.8	258.6	294.2	303.7
50°	230.2	234.9	253.9	287.1	294.2
52.5°	218.3	220.7	246.8	275.3	275.3
55°	204.1	206.4	242.0	256.3	256.3
57.5°	189.8	192.2	230.2	234.9	234.9
60°	175.6	178.0	215.9	215.9	215.9
62.5°	159.0	163.7	194.6	197.0	197.0
65°	144.7	151.9	173.2	175.6	175.6
67.5°	128.1	140.0	154.2	156.6	156.6
70°	113.9	128.1	132.9	135.3	135.3
72.5°	97.3	111.5	113.9	116.3	116.3
75°	80.7	94.9	94.9	97.3	97.3
77.5°	64.1	75.9	78.3	78.3	78.3
80°	49.8	56.9	61.7	59.3	59.3
82.5°	35.6	45.1	45.1	45.1	42.7
85°	23.7	38.0	33.2	30.8	28.5
87.5°	14.2	33.2	19.0	16.6	16.6
90°	4.7	14.2	11.9	2.4	2.4
92.5°	9.5	23.7	11.9	9.5	7.1
95°	19.0	94.9	113.9	23.7	23.7
97.5°	35.6	159.0	244.4	289.5	310.9
100°	54.6	237.3	327.5	401.0	427.1
102.5°	78.3	287.1	403.4	495.9	533.9
105°	104.4	337.0	510.2	588.5	635.9
107.5°	130.5	374.9	593.2	681.0	714.2
110°	161.4	405.8	645.4	797.3	806.8



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CATALOG NUMBER: J3-CL-50L82765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	189.8	429.5	673.9	854.2	906.5
115°	215.9	455.6	716.6	887.5	942.0
117.5°	246.8	474.6	742.7	906.5	965.8
120°	275.3	491.2	761.7	930.2	972.9
122.5°	301.4	510.2	775.9	949.2	996.6
125°	325.1	526.8	785.4	956.3	1003.7
127.5°	348.8	541.0	787.8	958.7	1008.5
130°	374.9	555.3	792.6	956.3	1006.1
132.5°	401.0	569.5	790.2	949.2	994.2
135°	420.0	579.0	785.4	939.7	980.0
137.5°	439.0	586.1	780.7	925.4	963.4
140°	455.6	590.9	773.6	908.8	944.4
142.5°	474.6	593.2	768.8	892.2	923.1
145°	491.2	593.2	761.7	873.2	901.7
147.5°	507.8	590.9	752.2	854.2	878.0
150°	519.7	586.1	742.7	835.3	854.2
152.5°	529.2	581.4	730.9	813.9	832.9
155°	541.0	579.0	716.6	794.9	809.2
157.5°	550.5	579.0	700.0	773.6	787.8
160°	560.0	579.0	681.0	752.2	764.1
162.5°	571.9	579.0	654.9	721.4	733.2
165°	583.7	581.4	635.9	690.5	700.0
167.5°	590.9	581.4	617.0	652.5	662.0
170°	595.6	586.1	600.3	626.4	628.8
172.5°	598.0	590.9	588.5	600.3	600.3
175°	598.0	590.9	588.5	588.5	583.7
177.5°	598.0	593.2	593.2	590.9	583.7
180°	593.2	593.2	593.2	593.2	593.2

(END OF REPORT)