

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: P275218

Luminaire Tested: **J3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5000.6 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

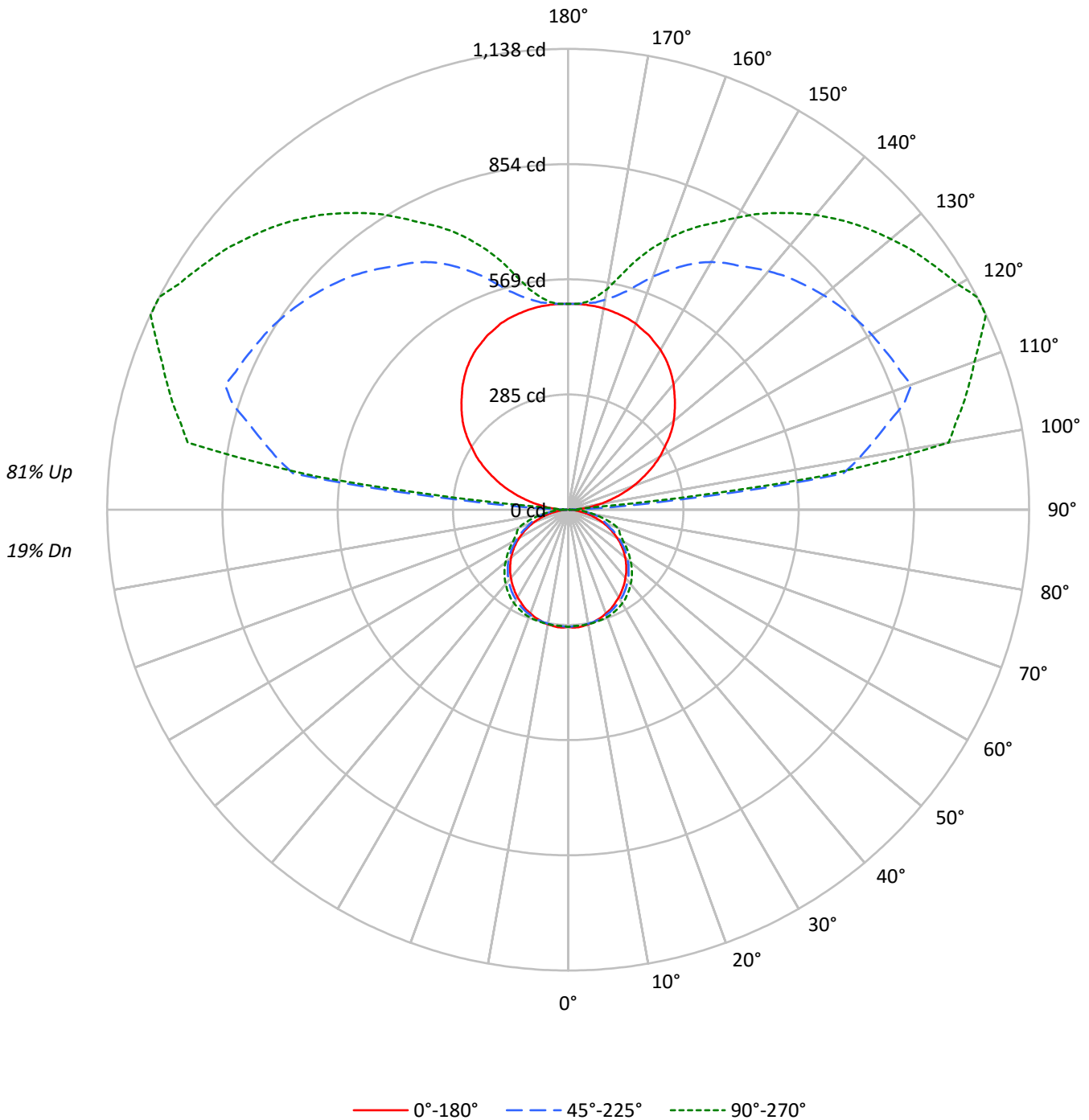
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10				
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8				
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7				
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4				

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

	0°	45°	90°
0°	2336	2336	2336
5°	2361	2335	2330
10°	2357	2341	2352
15°	2345	2356	2382
20°	2341	2373	2422
25°	2337	2388	2455
30°	2330	2399	2487
35°	2321	2408	2512
40°	2316	2409	2528
45°	2316	2410	2539
50°	2312	2408	2541
55°	2293	2398	2539
60°	2256	2356	2538
65°	2189	2332	2680
70°	2098	2337	3045
75°	1934	2676	3066
80°	1688	2710	2999
85°	1334	3075	3427



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	0.6
10°-20°	80.0	1.6
20°-30°	124.1	2.5
30°-40°	153.4	3.1
40°-50°	163.7	3.3
50°-60°	152.5	3.0
60°-70°	124.2	2.5
70°-80°	85.5	1.7
80°-90°	33.6	0.7
90°-100°	295.0	5.9
100°-110°	755.1	15.1
110°-120°	781.5	15.6
120°-130°	696.2	13.9
130°-140°	579.8	11.6
140°-150°	441.4	8.8
150°-160°	296.9	5.9
160°-170°	160.9	3.2
170°-180°	49.3	1.0
0°-30°	231.6	4.6
0°-40°	385.0	7.7
0°-60°	701.1	14.0
0°-90°	944.4	18.9
90°-120°	1831.6	36.6
90°-150°	3549.0	71.0
90°-180°	4056.0	81.1
0°-180°	5000.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	289	289	289	289	289	
5°	291	290	288	289	288	28
15°	281	282	282	285	285	79
25°	262	265	268	274	276	121
35°	236	239	244	252	255	147
45°	203	206	211	219	222	156
55°	163	165	170	176	180	145
65°	115	117	122	133	140	113
75°	62	66	86	96	98	65
85°	14	26	33	37	37	17
90°	2	3	3	2	2	5
95°	42	328	242	41	41	41
105°	124	521	814	958	1010	131
115°	216	539	881	1089	1138	214
125°	301	551	846	1018	1077	269
135°	373	566	798	948	998	288
145°	433	555	735	854	894	271
155°	474	527	663	748	774	218
165°	498	512	559	613	634	141
175°	508	509	512	514	515	48
180°	508	508	508	508	508	



TEST NUMBER: P275218

CATALOG NUMBER: J3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	289.4	289.4	289.4	289.4	289.4
2.5°	291.3	290.6	288.1	288.7	287.5
5°	291.3	290.0	288.1	288.7	287.5
7.5°	289.4	288.7	286.9	288.1	287.5
10°	287.5	286.9	285.6	287.5	286.9
12.5°	285.0	285.0	284.4	286.2	286.2
15°	280.6	282.5	281.9	285.0	285.0
17.5°	277.5	278.7	279.4	283.1	283.7
20°	272.5	275.0	276.2	280.0	281.9
22.5°	268.1	270.6	272.5	277.5	279.4
25°	262.4	264.9	268.1	273.7	275.6
27.5°	255.6	259.9	263.1	270.0	271.8
30°	249.9	253.0	257.4	264.3	266.8
32.5°	243.0	246.8	251.2	258.7	261.8
35°	235.5	239.3	244.3	252.4	254.9
37.5°	228.0	231.1	236.8	244.9	248.0
40°	219.8	223.0	228.6	237.4	239.9
42.5°	211.7	214.8	220.5	228.6	231.7
45°	202.9	206.1	211.1	218.6	222.4
47.5°	193.5	196.7	201.7	209.2	213.0
50°	184.1	186.7	191.7	198.6	202.3
52.5°	173.5	176.0	181.0	187.3	191.0
55°	162.9	165.4	170.4	176.0	180.4
57.5°	151.6	154.1	157.8	164.1	169.1
60°	139.7	142.2	145.9	152.8	157.2
62.5°	127.1	129.7	134.0	141.6	148.4
65°	114.6	117.1	122.1	133.4	140.3
67.5°	102.1	104.6	109.0	125.3	136.5
70°	88.9	91.4	99.0	121.5	129.0
72.5°	75.2	78.9	91.4	112.1	115.2
75°	62.0	65.8	85.8	95.8	98.3
77.5°	48.2	53.9	74.5	78.9	80.2
80°	36.3	44.5	58.3	63.9	64.5
82.5°	24.4	38.2	45.1	48.9	48.9
85°	14.4	26.3	33.2	37.0	37.0
87.5°	8.1	17.5	24.4	28.8	28.2
90°	1.9	3.1	3.1	2.5	2.5
92.5°	22.5	61.4	20.0	18.8	18.8
95°	42.0	328.2	241.8	40.7	40.7
97.5°	58.3	399.0	684.6	828.7	623.2
100°	79.5	478.5	728.4	897.6	953.9
102.5°	100.2	508.0	769.8	922.6	979.0
105°	124.0	521.1	814.3	957.7	1009.7
107.5°	147.2	528.6	868.7	988.4	1038.5
110°	171.0	532.4	901.3	1024.1	1067.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.9	535.5	888.8	1065.4	1100.5
115°	216.1	538.7	881.3	1089.2	1137.5
117.5°	238.6	540.5	872.5	1064.8	1137.5
120°	261.2	543.7	865.0	1048.5	1111.8
122.5°	280.0	547.4	856.2	1034.1	1094.2
125°	301.3	550.6	846.2	1018.4	1077.3
127.5°	321.9	553.7	834.9	1002.2	1060.4
130°	340.1	560.6	823.7	985.9	1039.7
132.5°	356.4	564.3	811.1	966.5	1019.7
135°	372.7	565.6	798.0	947.7	998.4
137.5°	388.3	565.0	784.8	926.4	974.6
140°	404.6	563.1	768.5	904.4	950.2
142.5°	419.0	559.3	752.2	880.0	922.6
145°	432.8	554.9	735.3	854.3	894.4
147.5°	444.7	548.1	722.2	826.8	865.6
150°	456.0	540.5	706.5	798.6	833.0
152.5°	464.1	533.7	687.1	771.7	800.5
155°	474.1	527.4	663.3	747.9	773.5
157.5°	480.4	522.4	638.3	718.4	743.5
160°	488.6	518.6	612.6	686.5	709.7
162.5°	494.2	514.9	584.4	650.8	673.3
165°	497.9	511.7	558.7	613.2	633.9
167.5°	501.7	510.5	539.9	573.7	590.0
170°	504.8	509.2	526.8	544.3	553.1
172.5°	506.7	508.6	516.1	525.5	529.9
175°	508.0	508.6	511.7	513.6	514.9
177.5°	508.6	508.6	508.6	508.0	508.6
180°	508.0	508.0	508.0	508.0	508.0

(END OF REPORT)