

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: P275122

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED 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: 4792.8 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

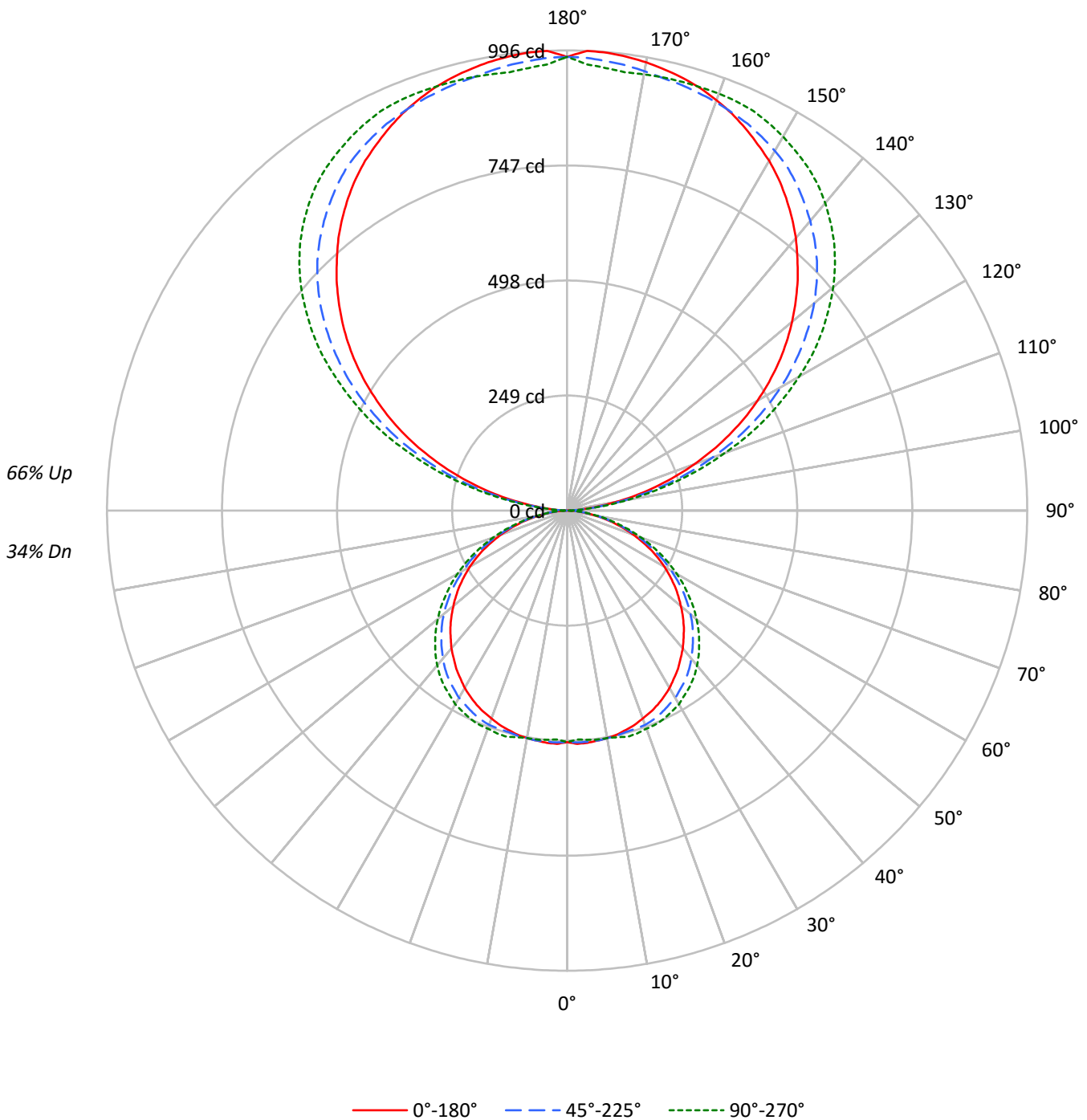
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

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

	0°	45°	90°
0°	4045	4045	4045
5°	4088	4071	4035
10°	4099	4099	4099
15°	4107	4144	4235
20°	4112	4241	4315
25°	4130	4302	4426
30°	4131	4362	4513
35°	4122	4397	4569
40°	4104	4408	4612
45°	4077	4395	4616
50°	4038	4377	4593
55°	3994	4315	4525
60°	3922	4203	4429
65°	3799	4044	4275
70°	3581	3810	4008
75°	3288	3490	3656
80°	2855	3050	3157
85°	2288	2371	2501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.8	1.0
10°-20°	140.6	2.9
20°-30°	221.5	4.6
30°-40°	276.7	5.8
40°-50°	294.9	6.2
50°-60°	272.0	5.7
60°-70°	208.9	4.4
70°-80°	118.4	2.5
80°-90°	31.2	0.7
90°-100°	50.2	1.0
100°-110°	236.5	4.9
110°-120°	428.6	8.9
120°-130°	550.5	11.5
130°-140°	585.6	12.2
140°-150°	538.9	11.2
150°-160°	426.7	8.9
160°-170°	270.9	5.7
170°-180°	92.9	1.9
0°-30°	409.9	8.6
0°-40°	686.6	14.3
0°-60°	1253.5	26.2
0°-90°	1611.9	33.6
90°-120°	715.3	14.9
90°-150°	2390.3	49.9
90°-180°	3181.0	66.4
0°-180°	4792.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	504	500	502	501	498	48
15°	491	489	496	504	507	139
25°	464	465	483	493	497	214
35°	418	426	446	457	464	261
45°	357	367	385	397	404	275
55°	284	292	307	316	322	253
65°	199	203	212	219	224	196
75°	105	108	112	116	117	112
85°	25	26	26	27	27	28
90°	1	1	1	0	0	3
95°	33	34	38	40	42	43
105°	198	207	226	240	246	210
115°	387	403	438	465	478	382
125°	559	576	621	655	673	499
135°	706	716	765	798	818	544
145°	826	823	865	892	908	517
155°	913	900	924	943	954	421
165°	969	954	954	957	961	274
175°	995	983	976	969	962	95
180°	982	982	982	982	982	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	501.1	501.1	501.1	501.1	501.1
2.5°	505.5	501.1	502.3	502.3	495.8
5°	504.4	500.0	502.3	501.1	497.9
7.5°	502.3	499.0	502.3	502.3	500.0
10°	500.0	496.9	500.0	501.1	500.0
12.5°	496.9	493.7	499.0	501.1	502.3
15°	491.4	489.3	495.8	504.4	506.7
17.5°	486.2	485.1	494.8	504.4	505.5
20°	478.6	478.6	493.7	501.1	502.3
22.5°	472.2	472.2	489.3	496.9	501.1
25°	463.6	464.6	483.0	492.7	496.9
27.5°	453.9	457.1	475.3	486.2	490.4
30°	443.2	448.5	467.9	478.6	484.1
32.5°	430.4	437.6	457.1	467.9	473.2
35°	418.3	426.0	446.2	457.1	463.6
37.5°	403.4	413.0	433.4	444.1	451.8
40°	389.4	399.2	418.3	430.4	437.6
42.5°	373.2	383.9	402.2	414.1	421.6
45°	357.1	366.7	385.0	396.9	404.3
47.5°	339.9	349.6	368.0	378.7	386.0
50°	321.5	332.2	348.5	359.2	365.7
52.5°	303.2	312.9	328.0	338.9	345.2
55°	283.8	292.5	306.6	316.4	321.5
57.5°	263.4	272.0	283.8	293.6	299.0
60°	242.9	249.4	260.3	269.9	274.3
62.5°	221.5	227.0	236.6	244.3	249.4
65°	198.9	203.3	211.7	219.4	223.8
67.5°	175.4	179.6	187.1	193.6	196.8
70°	151.7	155.9	161.4	166.6	169.8
72.5°	128.9	131.2	136.6	141.0	143.1
75°	105.4	107.5	111.9	116.1	117.2
77.5°	84.0	84.9	88.4	90.5	91.4
80°	61.4	63.5	65.6	66.6	67.9
82.5°	41.9	43.0	44.0	45.1	46.1
85°	24.7	25.6	25.6	27.0	27.0
87.5°	10.7	11.9	11.9	11.9	11.9
90°	1.1	1.1	1.1	0.0	0.0
92.5°	10.7	10.7	11.9	12.8	14.0
95°	33.3	34.4	37.7	39.8	41.9
97.5°	66.6	68.9	75.2	80.7	82.8
100°	107.5	111.9	121.6	128.9	132.4
102.5°	151.7	158.0	172.1	182.9	188.2
105°	198.0	206.6	225.9	239.9	246.4
107.5°	245.2	256.1	280.8	296.9	305.5
110°	292.5	306.6	333.4	354.8	361.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	339.9	354.8	387.1	410.9	422.7
115°	387.1	403.4	437.6	464.6	477.6
117.5°	432.5	449.5	487.2	517.4	529.1
120°	475.3	493.7	534.6	565.8	579.7
122.5°	518.3	535.8	578.6	611.9	629.3
125°	559.3	576.5	620.7	654.9	673.3
127.5°	598.1	614.0	660.5	695.8	713.1
130°	635.6	650.7	698.0	732.6	751.9
132.5°	671.2	685.1	732.6	765.9	786.3
135°	705.6	716.3	764.7	798.0	817.5
137.5°	737.7	745.4	792.8	826.1	844.5
140°	770.1	772.4	818.5	849.6	868.9
142.5°	799.1	798.0	842.2	872.2	890.6
145°	826.1	822.9	864.7	891.5	907.8
147.5°	851.7	844.5	884.1	906.8	921.7
150°	874.3	864.7	899.2	921.7	934.6
152.5°	893.6	882.9	912.0	932.4	945.3
155°	913.1	900.3	923.8	943.2	954.1
157.5°	930.3	914.1	932.4	949.7	958.5
160°	945.3	929.4	941.1	954.1	960.6
162.5°	958.5	942.2	947.6	955.0	960.6
165°	969.2	954.1	954.1	957.1	960.6
167.5°	977.6	964.8	958.5	959.4	960.6
170°	985.2	972.2	965.7	959.4	958.5
172.5°	990.6	977.6	972.2	963.6	957.1
175°	994.8	983.1	976.4	969.2	961.5
177.5°	996.0	986.2	980.8	973.4	966.9
180°	982.0	982.0	982.0	982.0	982.0

(END OF REPORT)