

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: P275126

Luminaire Tested: **J3-FL-50L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275126  
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 (6500K)  
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 6500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5018.4 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

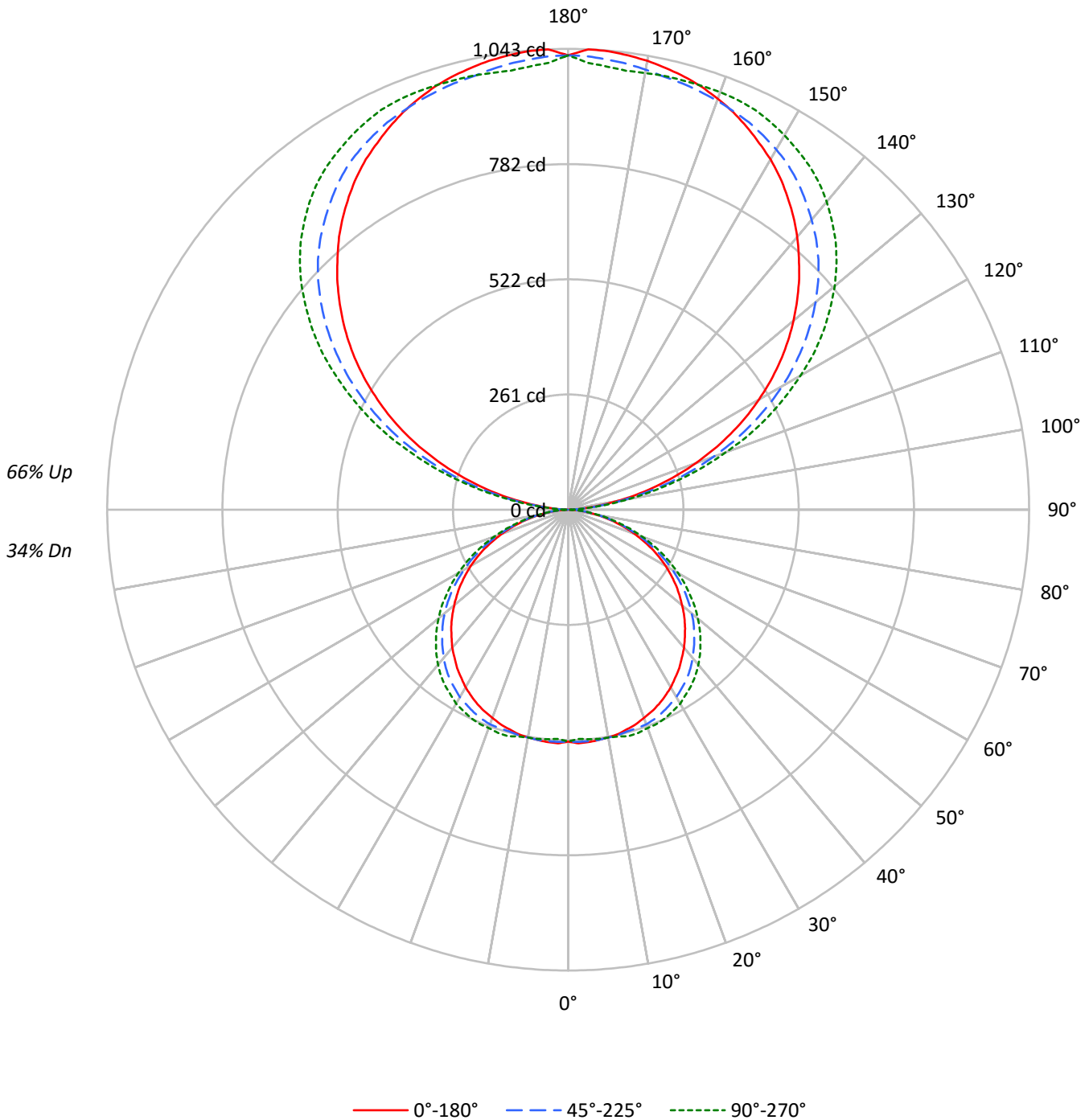
Input Watts (W): 37.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4236	4236	4236
5°	4280	4262	4225
10°	4291	4291	4291
15°	4300	4338	4434
20°	4305	4441	4518
25°	4325	4505	4635
30°	4325	4567	4725
35°	4317	4605	4785
40°	4298	4616	4829
45°	4269	4603	4834
50°	4229	4583	4809
55°	4183	4518	4739
60°	4108	4401	4637
65°	3979	4235	4476
70°	3748	3989	4197
75°	3444	3656	3830
80°	2989	3194	3305
85°	2390	2482	2612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	1.0
10°-20°	147.2	2.9
20°-30°	231.9	4.6
30°-40°	289.7	5.8
40°-50°	308.8	6.2
50°-60°	284.8	5.7
60°-70°	218.7	4.4
70°-80°	123.9	2.5
80°-90°	32.7	0.7
90°-100°	52.6	1.0
100°-110°	247.6	4.9
110°-120°	448.8	8.9
120°-130°	576.4	11.5
130°-140°	613.2	12.2
140°-150°	564.2	11.2
150°-160°	446.8	8.9
160°-170°	283.7	5.7
170°-180°	97.3	1.9
0°-30°	429.2	8.6
0°-40°	718.9	14.3
0°-60°	1312.5	26.2
0°-90°	1687.8	33.6
90°-120°	749.0	14.9
90°-150°	2502.9	49.9
90°-180°	3331.0	66.4
0°-180°	5018.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	525	525	525	525	525	
5°	528	524	526	525	521	50
15°	514	512	519	528	530	145
25°	486	486	506	516	520	224
35°	438	446	467	479	486	274
45°	374	384	403	416	423	288
55°	297	306	321	331	337	265
65°	208	213	222	230	234	205
75°	110	113	117	122	123	117
85°	26	27	27	28	28	29
90°	1	1	1	0	0	3
95°	35	36	40	42	44	45
105°	207	216	236	251	258	219
115°	405	422	458	486	500	400
125°	586	604	650	686	705	523
135°	739	750	801	836	856	570
145°	865	862	906	934	950	541
155°	956	943	967	988	999	441
165°	1015	999	999	1002	1006	287
175°	1042	1029	1022	1015	1007	99
180°	1028	1028	1028	1028	1028	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	524.7	524.7	524.7	524.7	524.7
2.5°	529.3	524.7	525.9	525.9	519.1
5°	528.1	523.5	525.9	524.7	521.3
7.5°	525.9	522.5	525.9	525.9	523.5
10°	523.5	520.3	523.5	524.7	523.5
12.5°	520.3	516.9	522.5	524.7	525.9
15°	514.5	512.3	519.1	528.1	530.5
17.5°	509.1	507.9	518.1	528.1	529.3
20°	501.1	501.1	516.9	524.7	525.9
22.5°	494.5	494.5	512.3	520.3	524.7
25°	485.5	486.5	505.7	515.9	520.3
27.5°	475.3	478.7	497.7	509.1	513.5
30°	464.0	469.7	489.9	501.1	506.9
32.5°	450.6	458.2	478.7	489.9	495.5
35°	438.0	446.0	467.3	478.7	485.5
37.5°	422.4	432.4	453.8	465.0	473.1
40°	407.8	418.0	438.0	450.6	458.2
42.5°	390.7	402.0	421.2	433.6	441.4
45°	373.9	383.9	403.2	415.6	423.4
47.5°	355.9	366.1	385.3	396.6	404.2
50°	336.7	347.9	364.9	376.1	382.9
52.5°	317.4	327.7	343.5	354.9	361.5
55°	297.2	306.2	321.0	331.3	336.7
57.5°	275.8	284.8	297.2	307.4	313.0
60°	254.4	261.2	272.6	282.6	287.2
62.5°	231.9	237.7	247.7	255.8	261.2
65°	208.3	212.9	221.7	229.7	234.3
67.5°	183.7	188.1	195.9	202.7	206.1
70°	158.8	163.2	169.0	174.4	177.8
72.5°	135.0	137.4	143.0	147.6	149.8
75°	110.4	112.6	117.2	121.6	122.8
77.5°	87.9	88.9	92.5	94.7	95.7
80°	64.3	66.5	68.7	69.7	71.1
82.5°	43.9	45.1	46.1	47.3	48.3
85°	25.8	26.8	26.8	28.2	28.2
87.5°	11.2	12.4	12.4	12.4	12.4
90°	1.2	1.2	1.2	0.0	0.0
92.5°	11.2	11.2	12.4	13.4	14.6
95°	34.8	36.1	39.5	41.7	43.9
97.5°	69.7	72.1	78.7	84.5	86.7
100°	112.6	117.2	127.4	135.0	138.6
102.5°	158.8	165.4	180.3	191.5	197.1
105°	207.3	216.3	236.5	251.2	258.0
107.5°	256.8	268.2	294.0	310.8	319.8
110°	306.2	321.0	349.1	371.5	378.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	355.9	371.5	405.4	430.2	442.6
115°	405.4	422.4	458.2	486.5	500.1
117.5°	452.8	470.7	510.1	541.8	554.0
120°	497.7	516.9	559.8	592.4	607.0
122.5°	542.8	561.0	605.8	640.7	658.9
125°	585.6	603.6	649.9	685.8	705.0
127.5°	626.3	642.9	691.6	728.6	746.6
130°	665.5	681.4	730.8	767.1	787.3
132.5°	702.8	717.4	767.1	801.9	823.3
135°	738.8	750.0	800.7	835.6	856.0
137.5°	772.5	780.5	830.2	865.0	884.2
140°	806.3	808.7	857.0	889.6	909.9
142.5°	836.8	835.6	881.8	913.3	932.5
145°	865.0	861.6	905.5	933.5	950.5
147.5°	891.8	884.2	925.7	949.5	965.1
150°	915.5	905.5	941.5	965.1	978.6
152.5°	935.7	924.5	954.9	976.4	989.8
155°	956.1	942.7	967.4	987.6	999.0
157.5°	974.2	957.1	976.4	994.4	1003.6
160°	989.8	973.2	985.4	999.0	1005.8
162.5°	1003.6	986.6	992.2	1000.0	1005.8
165°	1014.8	999.0	999.0	1002.2	1005.8
167.5°	1023.6	1010.2	1003.6	1004.6	1005.8
170°	1031.6	1018.0	1011.2	1004.6	1003.6
172.5°	1037.2	1023.6	1018.0	1009.0	1002.2
175°	1041.7	1029.4	1022.4	1014.8	1006.8
177.5°	1042.9	1032.6	1027.0	1019.2	1012.4
180°	1028.2	1028.2	1028.2	1028.2	1028.2

(END OF REPORT)