

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: P253593

Luminaire Tested: **J3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253593  
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-50L93050-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4602.3 lumens  
Efficiency: N/A  
Efficacy: 126.4 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

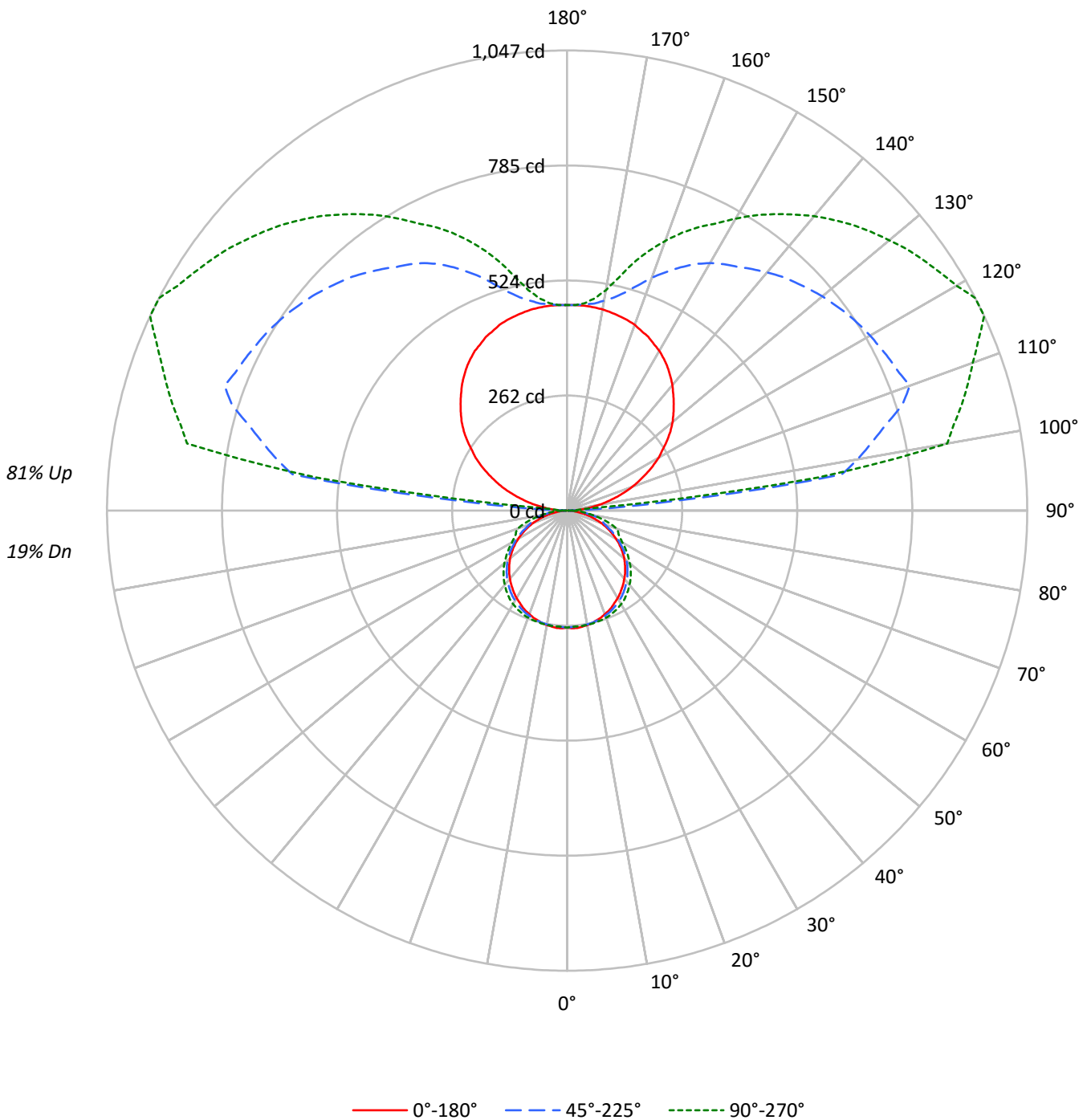
Input Watts (W): 36.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2150	2150	2150
5°	2173	2149	2144
10°	2169	2155	2164
15°	2159	2168	2192
20°	2155	2184	2229
25°	2151	2197	2259
30°	2144	2208	2289
35°	2136	2215	2312
40°	2132	2217	2327
45°	2133	2218	2336
50°	2129	2215	2339
55°	2110	2207	2336
60°	2076	2168	2336
65°	2015	2147	2466
70°	1933	2150	2804
75°	1781	2464	2823
80°	1553	2492	2762
85°	1232	2834	3149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	0.6
10°-20°	73.6	1.6
20°-30°	114.2	2.5
30°-40°	141.2	3.1
40°-50°	150.6	3.3
50°-60°	140.3	3.0
60°-70°	114.3	2.5
70°-80°	78.7	1.7
80°-90°	30.9	0.7
90°-100°	271.5	5.9
100°-110°	695.0	15.1
110°-120°	719.3	15.6
120°-130°	640.8	13.9
130°-140°	533.6	11.6
140°-150°	406.2	8.8
150°-160°	273.3	5.9
160°-170°	148.1	3.2
170°-180°	45.4	1.0
0°-30°	213.1	4.6
0°-40°	354.3	7.7
0°-60°	645.3	14.0
0°-90°	869.2	18.9
90°-120°	1685.8	36.6
90°-150°	3266.4	71.0
90°-180°	3733.0	81.1
0°-180°	4602.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	266	266	266	266	266	
5°	268	267	265	266	265	25
15°	258	260	259	262	262	73
25°	242	244	247	252	254	111
35°	217	220	225	232	235	136
45°	187	190	194	201	205	144
55°	150	152	157	162	166	134
65°	106	108	112	123	129	104
75°	57	60	79	88	90	60
85°	13	24	31	34	34	15
90°	2	3	3	2	2	4
95°	39	302	222	38	38	38
105°	114	480	749	881	929	121
115°	199	496	811	1002	1047	197
125°	277	507	779	937	992	248
135°	343	520	734	872	919	265
145°	398	511	677	786	823	249
155°	436	485	610	688	712	201
165°	458	471	514	564	583	130
175°	468	468	471	473	474	45
180°	468	468	468	468	468	



TEST NUMBER: P253593

CATALOG NUMBER: J3-UL-50L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	266.3	266.3	266.3	266.3	266.3
2.5°	268.1	267.5	265.2	265.7	264.6
5°	268.1	266.9	265.2	265.7	264.6
7.5°	266.3	265.7	264.0	265.2	264.6
10°	264.6	264.0	262.9	264.6	264.0
12.5°	262.3	262.3	261.7	263.4	263.4
15°	258.3	260.0	259.4	262.3	262.3
17.5°	255.4	256.5	257.1	260.6	261.1
20°	250.8	253.1	254.2	257.7	259.4
22.5°	246.7	249.0	250.8	255.4	257.1
25°	241.5	243.8	246.7	251.9	253.6
27.5°	235.2	239.2	242.1	248.5	250.2
30°	230.0	232.9	236.9	243.3	245.6
32.5°	223.7	227.1	231.2	238.1	241.0
35°	216.7	220.2	224.8	232.3	234.6
37.5°	209.8	212.7	217.9	225.4	228.3
40°	202.3	205.2	210.4	218.5	220.8
42.5°	194.8	197.7	202.9	210.4	213.3
45°	186.8	189.7	194.3	201.2	204.6
47.5°	178.1	181.0	185.6	192.5	196.0
50°	169.5	171.8	176.4	182.7	186.2
52.5°	159.7	162.0	166.6	172.4	175.8
55°	149.9	152.2	156.8	162.0	166.0
57.5°	139.5	141.8	145.3	151.0	155.6
60°	128.6	130.9	134.3	140.7	144.7
62.5°	117.0	119.3	123.4	130.3	136.6
65°	105.5	107.8	112.4	122.8	129.1
67.5°	94.0	96.3	100.3	115.3	125.7
70°	81.9	84.2	91.1	111.8	118.8
72.5°	69.2	72.6	84.2	103.2	106.1
75°	57.1	60.5	79.0	88.2	90.5
77.5°	44.4	49.6	68.6	72.6	73.8
80°	33.4	40.9	53.6	58.8	59.4
82.5°	22.5	35.2	41.5	45.0	45.0
85°	13.3	24.2	30.6	34.0	34.0
87.5°	7.5	16.1	22.5	26.5	25.9
90°	1.7	2.9	2.9	2.3	2.3
92.5°	20.8	56.5	18.4	17.3	17.3
95°	38.6	302.1	222.5	37.5	37.5
97.5°	53.6	367.2	630.1	762.7	573.6
100°	73.2	440.4	670.4	826.1	878.0
102.5°	92.2	467.5	708.5	849.1	901.0
105°	114.1	479.6	749.4	881.4	929.3
107.5°	135.5	486.5	799.6	909.7	955.8
110°	157.4	490.0	829.5	942.5	982.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	177.6	492.9	818.0	980.6	1012.8
115°	198.9	495.8	811.1	1002.5	1046.9
117.5°	219.6	497.5	803.0	980.0	1046.9
120°	240.4	500.4	796.1	965.0	1023.2
122.5°	257.7	503.8	788.0	951.7	1007.1
125°	277.3	506.7	778.8	937.3	991.5
127.5°	296.3	509.6	768.4	922.3	976.0
130°	313.0	515.9	758.0	907.4	956.9
132.5°	328.0	519.4	746.5	889.5	938.5
135°	343.0	520.5	734.4	872.2	918.9
137.5°	357.4	520.0	722.3	852.6	897.0
140°	372.4	518.2	707.3	832.4	874.5
142.5°	385.7	514.8	692.3	809.9	849.1
145°	398.3	510.7	676.8	786.3	823.2
147.5°	409.3	504.4	664.7	760.9	796.7
150°	419.7	497.5	650.2	735.0	766.7
152.5°	427.2	491.1	632.4	710.2	736.7
155°	436.4	485.4	610.5	688.3	711.9
157.5°	442.1	480.8	587.4	661.2	684.3
160°	449.6	477.3	563.8	631.8	653.1
162.5°	454.8	473.9	537.8	598.9	619.7
165°	458.3	471.0	514.2	564.4	583.4
167.5°	461.7	469.8	496.9	528.0	543.0
170°	464.6	468.7	484.8	500.9	509.0
172.5°	466.4	468.1	475.0	483.7	487.7
175°	467.5	468.1	471.0	472.7	473.9
177.5°	468.1	468.1	468.1	467.5	468.1
180°	467.5	467.5	467.5	467.5	467.5

(END OF REPORT)