

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: P253530

Luminaire Tested: **J3-FL-20L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253530  
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-20L93050-1D-UNV-W2A-W-4 (3000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1747.5 lumens  
Efficiency: N/A  
Efficacy: 105.3 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

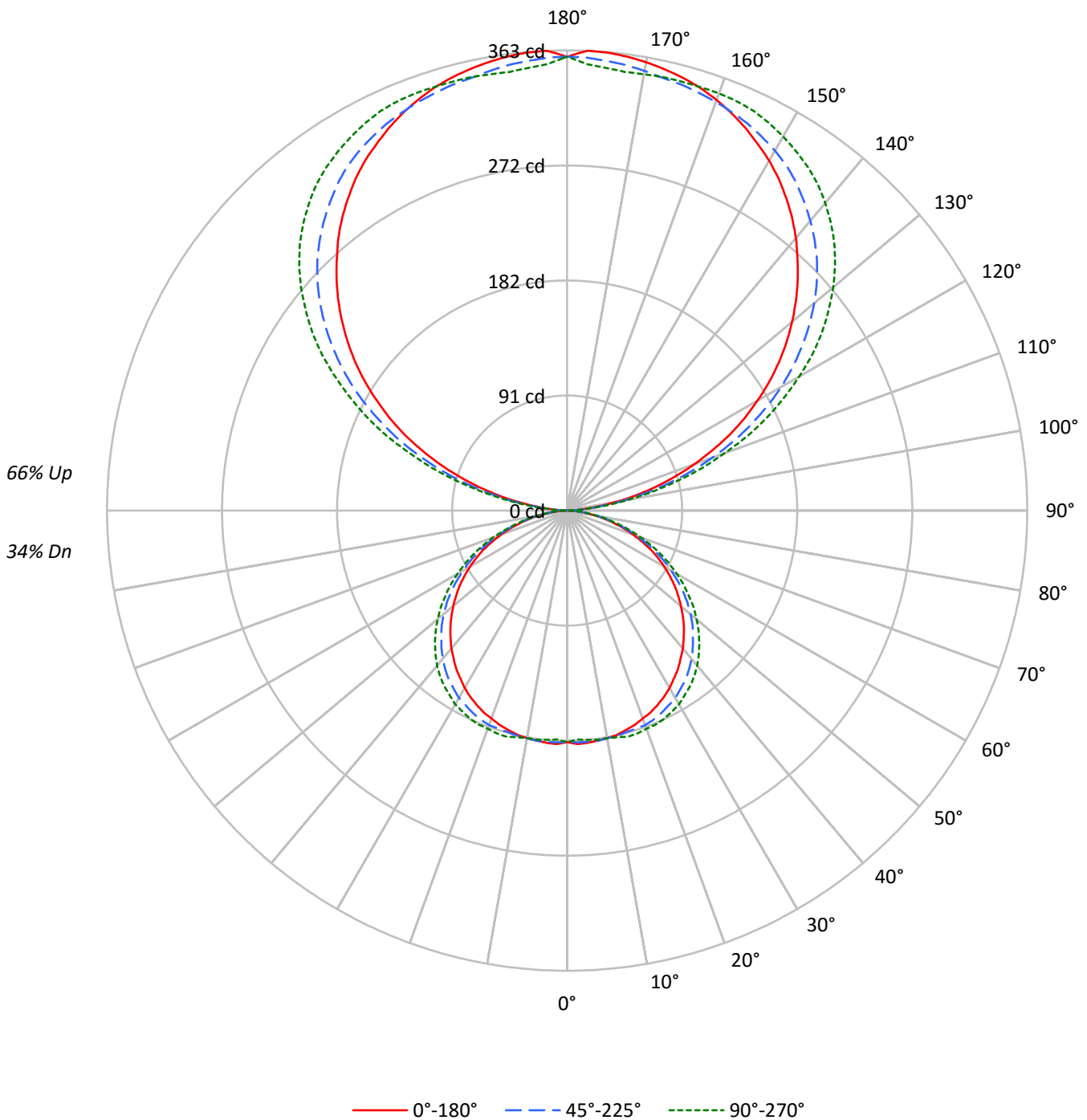
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1475	1475	1475
5°	1490	1484	1471
10°	1494	1494	1494
15°	1498	1511	1544
20°	1499	1546	1573
25°	1505	1569	1614
30°	1506	1590	1645
35°	1503	1603	1666
40°	1496	1607	1682
45°	1486	1603	1683
50°	1472	1596	1674
55°	1457	1574	1650
60°	1431	1532	1615
65°	1385	1475	1559
70°	1305	1390	1461
75°	1198	1273	1335
80°	1041	1111	1153
85°	834	861	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.4	1.0
10°-20°	51.3	2.9
20°-30°	80.7	4.6
30°-40°	100.9	5.8
40°-50°	107.5	6.2
50°-60°	99.2	5.7
60°-70°	76.2	4.4
70°-80°	43.1	2.5
80°-90°	11.4	0.7
90°-100°	18.3	1.0
100°-110°	86.2	4.9
110°-120°	156.3	8.9
120°-130°	200.7	11.5
130°-140°	213.5	12.2
140°-150°	196.5	11.2
150°-160°	155.6	8.9
160°-170°	98.8	5.7
170°-180°	33.9	1.9
0°-30°	149.4	8.6
0°-40°	250.3	14.3
0°-60°	457.0	26.2
0°-90°	587.7	33.6
90°-120°	260.8	14.9
90°-150°	871.5	49.9
90°-180°	1160.0	66.4
0°-180°	1747.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	183	183	183	183	183	
5°	184	182	183	183	182	17
15°	179	178	181	184	185	51
25°	169	169	176	180	181	78
35°	152	155	163	167	169	95
45°	130	134	140	145	147	100
55°	104	107	112	115	117	92
65°	72	74	77	80	82	72
75°	38	39	41	42	43	41
85°	9	9	9	10	10	10
90°	0	0	0	0	0	1
95°	12	13	14	14	15	16
105°	72	75	82	88	90	76
115°	141	147	160	169	174	139
125°	204	210	226	239	246	182
135°	257	261	279	291	298	198
145°	301	300	315	325	331	188
155°	333	328	337	344	348	154
165°	353	348	348	349	350	100
175°	363	358	356	353	351	34
180°	358	358	358	358	358	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	182.7	182.7	182.7	182.7	182.7
2.5°	184.3	182.7	183.1	183.1	180.8
5°	183.9	182.3	183.1	182.7	181.5
7.5°	183.1	181.9	183.1	183.1	182.3
10°	182.3	181.2	182.3	182.7	182.3
12.5°	181.2	180.0	181.9	182.7	183.1
15°	179.2	178.4	180.8	183.9	184.7
17.5°	177.3	176.9	180.4	183.9	184.3
20°	174.5	174.5	180.0	182.7	183.1
22.5°	172.2	172.2	178.4	181.2	182.7
25°	169.0	169.4	176.1	179.6	181.2
27.5°	165.5	166.7	173.3	177.3	178.8
30°	161.6	163.5	170.6	174.5	176.5
32.5°	156.9	159.6	166.7	170.6	172.5
35°	152.5	155.3	162.7	166.7	169.0
37.5°	147.1	150.6	158.0	161.9	164.7
40°	142.0	145.5	152.5	156.9	159.6
42.5°	136.1	140.0	146.7	151.0	153.7
45°	130.2	133.7	140.4	144.7	147.4
47.5°	123.9	127.5	134.2	138.1	140.7
50°	117.2	121.1	127.1	131.0	133.3
52.5°	110.5	114.1	119.6	123.6	125.9
55°	103.5	106.6	111.8	115.3	117.2
57.5°	96.0	99.2	103.5	107.0	109.0
60°	88.6	90.9	94.9	98.4	100.0
62.5°	80.8	82.8	86.3	89.1	90.9
65°	72.5	74.1	77.2	80.0	81.6
67.5°	64.0	65.5	68.2	70.6	71.8
70°	55.3	56.8	58.9	60.7	61.9
72.5°	47.0	47.8	49.8	51.4	52.2
75°	38.4	39.2	40.8	42.3	42.8
77.5°	30.6	31.0	32.2	33.0	33.3
80°	22.4	23.2	23.9	24.3	24.8
82.5°	15.3	15.7	16.0	16.5	16.8
85°	9.0	9.3	9.3	9.8	9.8
87.5°	3.9	4.3	4.3	4.3	4.3
90°	0.4	0.4	0.4	0.0	0.0
92.5°	3.9	3.9	4.3	4.7	5.1
95°	12.1	12.6	13.7	14.5	15.3
97.5°	24.3	25.1	27.4	29.4	30.2
100°	39.2	40.8	44.4	47.0	48.3
102.5°	55.3	57.6	62.8	66.7	68.6
105°	72.2	75.3	82.4	87.5	89.8
107.5°	89.4	93.4	102.4	108.2	111.4
110°	106.6	111.8	121.6	129.4	131.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	123.9	129.4	141.2	149.8	154.1
115°	141.2	147.1	159.6	169.4	174.1
117.5°	157.7	163.9	177.6	188.6	192.9
120°	173.3	180.0	194.9	206.3	211.4
122.5°	189.0	195.3	211.0	223.1	229.4
125°	203.9	210.2	226.3	238.8	245.5
127.5°	218.1	223.9	240.8	253.7	260.0
130°	231.7	237.3	254.5	267.1	274.1
132.5°	244.7	249.8	267.1	279.2	286.7
135°	257.3	261.2	278.8	291.0	298.1
137.5°	269.0	271.8	289.1	301.2	307.9
140°	280.8	281.6	298.4	309.8	316.8
142.5°	291.4	291.0	307.1	318.0	324.7
145°	301.2	300.0	315.3	325.1	331.0
147.5°	310.5	307.9	322.3	330.6	336.1
150°	318.8	315.3	327.8	336.1	340.7
152.5°	325.8	321.9	332.5	340.0	344.7
155°	332.9	328.3	336.8	343.9	347.9
157.5°	339.2	333.3	340.0	346.3	349.5
160°	344.7	338.9	343.1	347.9	350.2
162.5°	349.5	343.5	345.5	348.2	350.2
165°	353.4	347.9	347.9	349.0	350.2
167.5°	356.4	351.8	349.5	349.8	350.2
170°	359.2	354.5	352.1	349.8	349.5
172.5°	361.2	356.4	354.5	351.3	349.0
175°	362.7	358.5	356.0	353.4	350.6
177.5°	363.1	359.6	357.6	354.9	352.5
180°	358.0	358.0	358.0	358.0	358.0

(END OF REPORT)