

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: P275172

Luminaire Tested: **J3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)  
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 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2412.9 lumens  
Efficiency: N/A  
Efficacy: 145.4 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

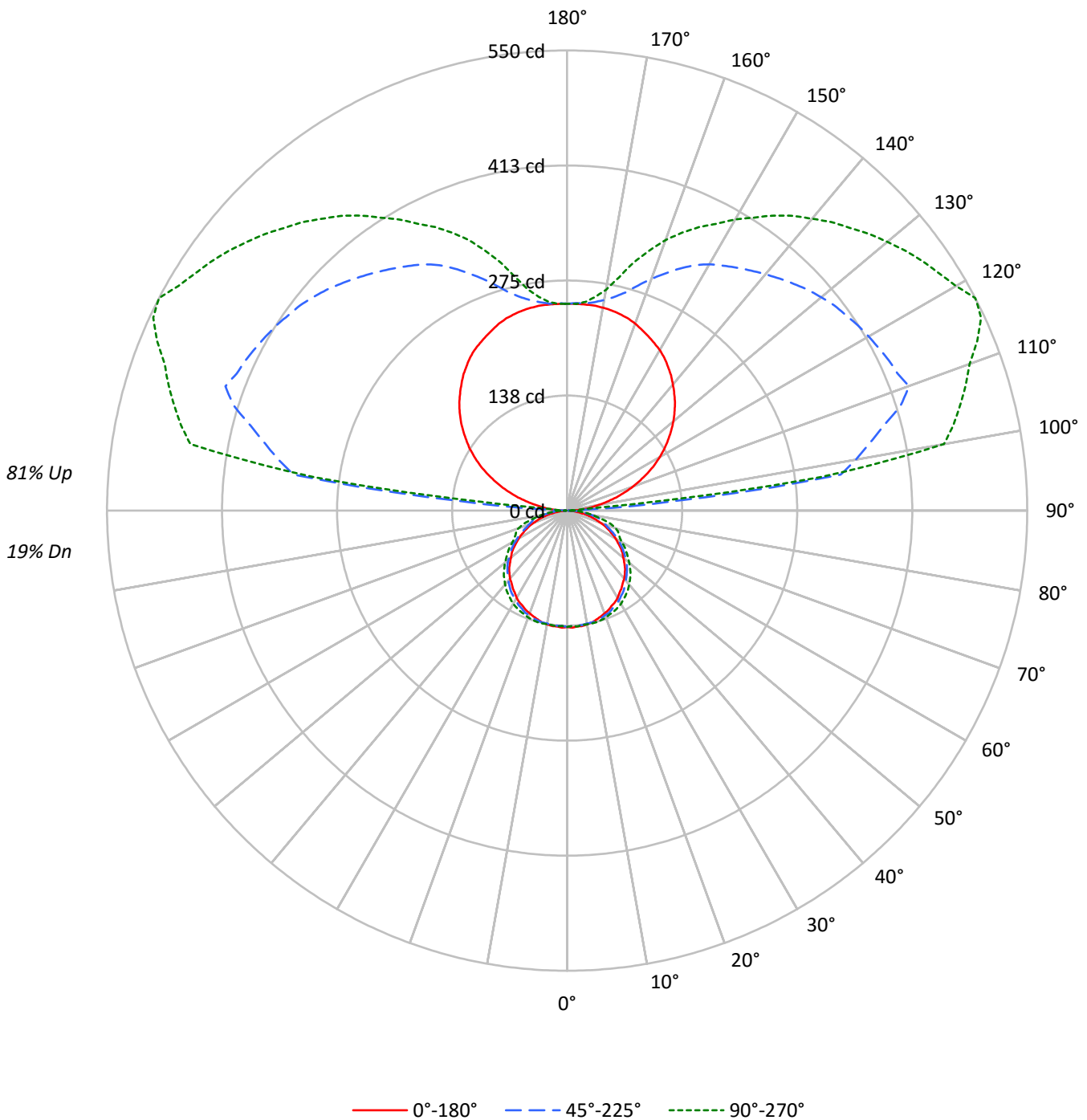
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	27	27	27	19				
1	91	86	82	79	80	76	73	70	57	55	53	40	39	37	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	19	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	19	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°	1123	1123	1123
5°	1127	1118	1127
10°	1131	1123	1131
15°	1127	1137	1153
20°	1124	1142	1168
25°	1120	1147	1184
30°	1123	1152	1201
35°	1117	1157	1208
40°	1118	1151	1216
45°	1118	1152	1223
50°	1100	1152	1216
55°	1102	1146	1217
60°	1082	1130	1214
65°	1043	1121	1299
70°	996	1142	1459
75°	933	1316	1478
80°	767	1292	1437
85°	667	1436	1621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.2	0.5
10°-20°	38.5	1.6
20°-30°	59.7	2.5
30°-40°	73.6	3.1
40°-50°	78.5	3.3
50°-60°	73.2	3.0
60°-70°	60.0	2.5
70°-80°	41.3	1.7
80°-90°	16.1	0.7
90°-100°	143.7	6.0
100°-110°	363.9	15.1
110°-120°	377.1	15.6
120°-130°	336.2	13.9
130°-140°	279.8	11.6
140°-150°	212.9	8.8
150°-160°	143.4	5.9
160°-170°	78.0	3.2
170°-180°	24.0	1.0
0°-30°	111.4	4.6
0°-40°	185.0	7.7
0°-60°	336.7	14.0
0°-90°	454.0	18.8
90°-120°	884.7	36.7
90°-150°	1713.6	71.0
90°-180°	1959.0	81.2
0°-180°	2412.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	139	139	139	139	139	
5°	139	139	138	139	139	13
15°	135	136	136	137	138	38
25°	126	127	129	132	133	58
35°	113	114	117	122	123	71
45°	98	99	101	105	107	75
55°	78	79	81	84	86	70
65°	55	57	59	65	68	54
75°	30	32	42	46	47	31
85°	7	12	16	18	18	8
90°	1	1	1	1	1	2
95°	21	159	126	20	20	20
105°	61	251	391	462	486	64
115°	106	260	424	527	546	105
125°	147	266	407	493	519	132
135°	182	274	383	458	478	140
145°	210	269	354	412	430	132
155°	230	255	319	360	374	106
165°	243	249	270	297	307	69
175°	247	247	248	250	250	24
180°	247	247	247	247	247	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	139.1	139.1	139.1	139.1	139.1
2.5°	140.1	140.1	138.0	139.1	138.0
5°	139.1	139.1	138.0	139.1	139.1
7.5°	139.1	139.1	138.0	139.1	138.0
10°	138.0	138.0	137.0	138.0	138.0
12.5°	137.0	137.0	137.0	138.0	138.0
15°	134.9	136.0	136.0	137.0	138.0
17.5°	132.9	133.9	134.9	136.0	137.0
20°	130.8	131.8	132.9	134.9	136.0
22.5°	128.8	129.8	131.8	133.9	133.9
25°	125.7	126.7	128.8	131.8	132.9
27.5°	123.6	124.6	126.7	129.8	130.8
30°	120.5	121.5	123.6	127.7	128.8
32.5°	116.4	118.5	120.5	124.6	125.7
35°	113.3	114.3	117.4	121.5	122.6
37.5°	109.2	110.2	113.3	117.4	119.5
40°	106.1	107.1	109.2	113.3	115.4
42.5°	102.0	103.0	105.1	109.2	111.2
45°	97.9	98.9	100.9	105.1	107.1
47.5°	92.7	94.8	96.8	99.9	102.0
50°	87.6	89.6	91.7	95.8	96.8
52.5°	83.4	84.5	86.5	89.6	91.7
55°	78.3	79.3	81.4	84.5	86.5
57.5°	72.1	74.2	76.2	79.3	81.4
60°	67.0	69.0	70.0	74.2	75.2
62.5°	60.8	62.8	64.9	68.0	71.1
65°	54.6	56.7	58.7	64.9	68.0
67.5°	49.4	50.5	52.5	60.8	65.9
70°	42.2	44.3	48.4	58.7	61.8
72.5°	36.1	38.1	44.3	53.6	55.6
75°	29.9	31.9	42.2	46.4	47.4
77.5°	23.7	25.8	36.1	38.1	38.1
80°	16.5	21.6	27.8	30.9	30.9
82.5°	11.3	18.5	21.6	23.7	23.7
85°	7.2	12.4	15.5	17.5	17.5
87.5°	4.1	8.2	12.4	13.4	13.4
90°	1.0	1.0	1.0	1.0	1.0
92.5°	11.3	33.0	9.3	9.3	9.3
95°	20.6	158.6	125.7	19.6	19.6
97.5°	28.8	192.6	329.6	407.9	304.9
100°	38.1	228.7	350.2	432.6	457.3
102.5°	48.4	245.1	369.8	446.0	472.8
105°	60.8	251.3	391.4	462.5	486.2
107.5°	72.1	254.4	418.2	476.9	499.6
110°	83.4	256.5	434.7	493.4	511.9



TEST NUMBER: P275172

CATALOG NUMBER: J3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.8	257.5	427.5	515.0	530.5
115°	106.1	259.6	424.4	527.4	545.9
117.5°	117.4	260.6	420.2	515.0	550.0
120°	127.7	262.7	416.1	507.8	536.6
122.5°	138.0	263.7	412.0	500.6	527.4
125°	147.3	265.7	406.9	493.4	519.1
127.5°	156.6	267.8	402.7	485.1	509.9
130°	165.8	270.9	396.6	476.9	499.6
132.5°	174.1	273.0	390.4	467.6	489.3
135°	182.3	274.0	383.2	458.4	477.9
137.5°	189.5	274.0	376.0	448.1	467.6
140°	196.7	273.0	368.7	436.7	455.3
142.5°	203.9	271.9	361.5	424.4	443.9
145°	210.1	268.8	354.3	412.0	430.5
147.5°	216.3	265.7	347.1	398.6	415.1
150°	221.5	261.6	339.9	384.2	401.7
152.5°	225.6	258.5	330.6	371.8	386.3
155°	229.7	255.4	319.3	360.5	373.9
157.5°	233.8	253.4	306.9	347.1	359.5
160°	237.9	252.4	294.6	331.7	344.0
162.5°	241.0	250.3	282.2	314.2	325.5
165°	243.1	249.3	269.9	296.6	306.9
167.5°	245.1	248.2	261.6	277.1	285.3
170°	246.2	247.2	255.4	263.7	267.8
172.5°	247.2	247.2	251.3	255.4	257.5
175°	247.2	247.2	248.2	250.3	250.3
177.5°	247.2	248.2	248.2	248.2	247.2
180°	247.2	247.2	247.2	247.2	247.2

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