

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: P274980

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-20L82765-1D-UNV-W2A-W-4 (5000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR 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: 2310.9 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

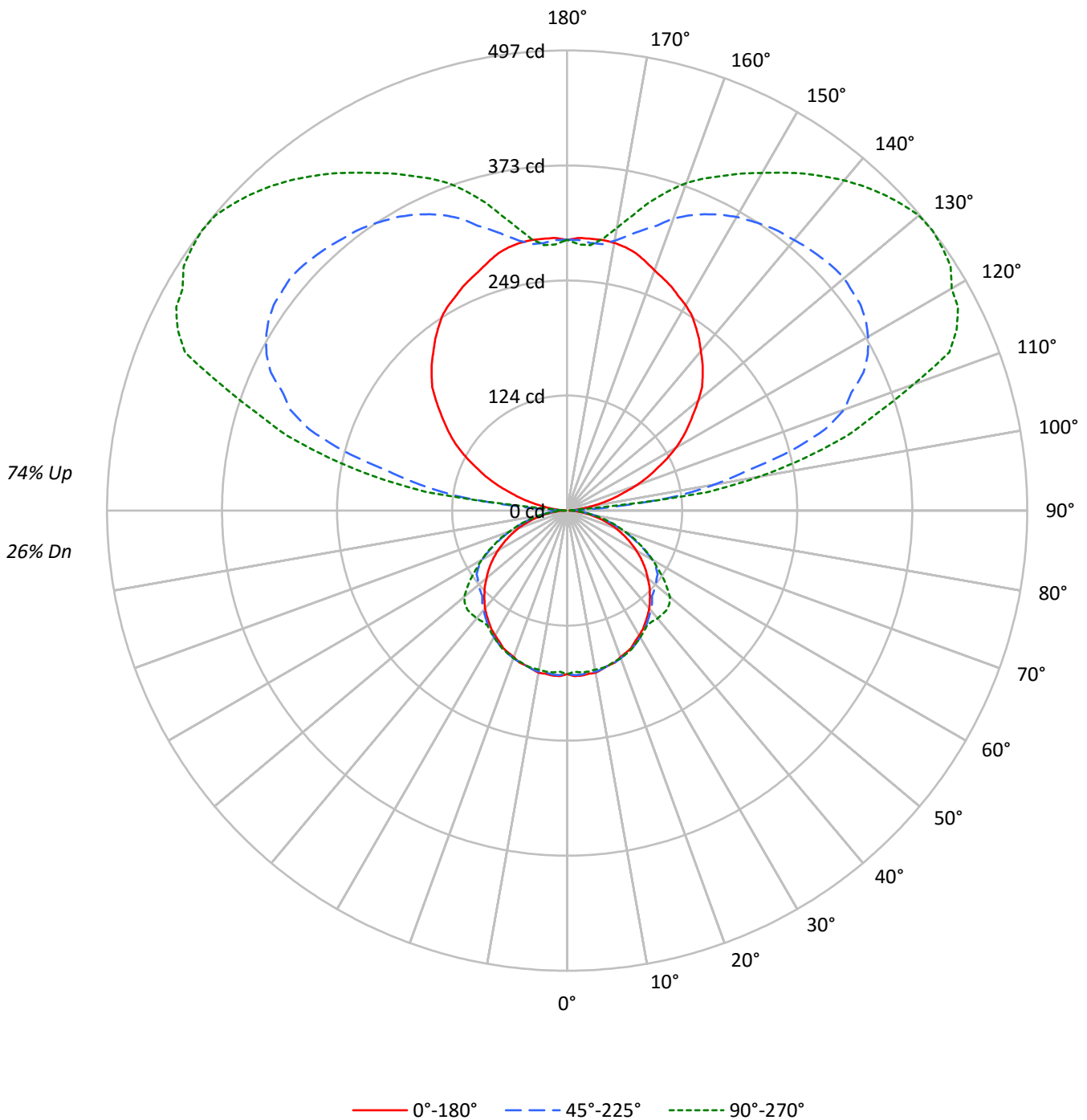
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

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

	0°	45°	90°
0°	1426	1426	1426
5°	1450	1441	1421
10°	1458	1448	1429
15°	1447	1447	1447
20°	1447	1457	1457
25°	1458	1469	1469
30°	1450	1472	1472
35°	1453	1475	1487
40°	1454	1479	1602
45°	1442	1482	1735
50°	1424	1571	1821
55°	1416	1679	1778
60°	1397	1718	1718
65°	1362	1631	1652
70°	1324	1546	1574
75°	1241	1460	1497
80°	1144	1413	1358
85°	1084	1519	1297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.8	0.7
10°-20°	48.9	2.1
20°-30°	75.5	3.3
30°-40°	93.7	4.1
40°-50°	104.8	4.5
50°-60°	102.4	4.4
60°-70°	80.8	3.5
70°-80°	48.9	2.1
80°-90°	17.4	0.8
90°-100°	60.0	2.6
100°-110°	232.1	10.0
110°-120°	319.0	13.8
120°-130°	322.7	14.0
130°-140°	286.0	12.4
140°-150°	226.2	9.8
150°-160°	158.0	6.8
160°-170°	89.4	3.9
170°-180°	28.0	1.2
0°-30°	141.3	6.1
0°-40°	235.0	10.2
0°-60°	442.3	19.1
0°-90°	589.4	25.5
90°-120°	611.2	26.4
90°-150°	1446.1	62.6
90°-180°	1721.0	74.5
0°-180°	2310.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	177	177	177	177	177	
5°	179	177	178	177	175	17
15°	173	172	173	173	173	49
25°	164	161	165	165	165	75
35°	147	147	150	151	151	92
45°	126	128	130	146	152	97
55°	101	102	119	126	126	90
65°	71	75	85	86	86	70
75°	40	47	47	48	48	42
85°	12	19	16	15	14	12
90°	2	7	6	1	1	2
95°	9	47	56	12	12	12
105°	52	166	252	290	313	55
115°	106	225	353	437	464	106
125°	160	260	387	471	495	143
135°	207	285	387	463	483	159
145°	242	292	375	430	444	151
155°	267	285	353	392	399	123
165°	288	286	313	340	345	81
175°	295	291	290	290	288	28
180°	292	292	292	292	292	



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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	176.6	176.6	176.6	176.6	176.6
2.5°	178.9	176.6	177.8	176.6	174.3
5°	178.9	176.6	177.8	176.6	175.4
7.5°	177.8	176.6	176.6	175.4	175.4
10°	177.8	175.4	176.6	175.4	174.3
12.5°	175.4	174.3	175.4	174.3	174.3
15°	173.1	171.9	173.1	173.1	173.1
17.5°	171.9	169.6	171.9	171.9	170.8
20°	168.4	167.2	169.6	169.6	169.6
22.5°	166.1	164.9	167.2	167.2	167.2
25°	163.7	161.4	164.9	164.9	164.9
27.5°	159.1	159.1	161.4	162.6	161.4
30°	155.6	154.4	157.9	159.1	157.9
32.5°	152.0	150.9	154.4	155.6	154.4
35°	147.4	147.4	149.7	150.9	150.9
37.5°	142.7	142.7	145.0	146.2	150.9
40°	138.0	138.0	140.3	147.4	152.0
42.5°	132.2	132.2	135.7	146.2	152.0
45°	126.3	127.5	129.8	146.2	152.0
47.5°	120.5	121.6	127.5	145.0	149.7
50°	113.4	115.8	125.1	141.5	145.0
52.5°	107.6	108.8	121.6	135.7	135.7
55°	100.6	101.8	119.3	126.3	126.3
57.5°	93.6	94.7	113.4	115.8	115.8
60°	86.5	87.7	106.4	106.4	106.4
62.5°	78.4	80.7	95.9	97.1	97.1
65°	71.3	74.9	85.4	86.5	86.5
67.5°	63.2	69.0	76.0	77.2	77.2
70°	56.1	63.2	65.5	66.7	66.7
72.5°	48.0	55.0	56.1	57.3	57.3
75°	39.8	46.8	46.8	48.0	48.0
77.5°	31.6	37.4	38.6	38.6	38.6
80°	24.6	28.1	30.4	29.2	29.2
82.5°	17.5	22.2	22.2	22.2	21.1
85°	11.7	18.7	16.4	15.2	14.0
87.5°	7.0	16.4	9.4	8.2	8.2
90°	2.3	7.0	5.8	1.2	1.2
92.5°	4.7	11.7	5.8	4.7	3.5
95°	9.4	46.8	56.1	11.7	11.7
97.5°	17.5	78.4	120.5	142.7	153.2
100°	26.9	117.0	161.4	197.7	210.5
102.5°	38.6	141.5	198.8	244.4	263.2
105°	51.5	166.1	251.5	290.1	313.4
107.5°	64.3	184.8	292.4	335.7	352.0
110°	79.5	200.0	318.1	393.0	397.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	93.6	211.7	332.2	421.0	446.8
115°	106.4	224.6	353.2	437.4	464.3
117.5°	121.6	233.9	366.1	446.8	476.0
120°	135.7	242.1	375.4	458.5	479.5
122.5°	148.5	251.5	382.4	467.8	491.2
125°	160.2	259.6	387.1	471.3	494.7
127.5°	171.9	266.7	388.3	472.5	497.1
130°	184.8	273.7	390.6	471.3	495.9
132.5°	197.7	280.7	389.5	467.8	490.0
135°	207.0	285.4	387.1	463.1	483.0
137.5°	216.4	288.9	384.8	456.1	474.8
140°	224.6	291.2	381.3	447.9	465.5
142.5°	233.9	292.4	378.9	439.8	455.0
145°	242.1	292.4	375.4	430.4	444.4
147.5°	250.3	291.2	370.7	421.0	432.7
150°	256.1	288.9	366.1	411.7	421.0
152.5°	260.8	286.5	360.2	401.2	410.5
155°	266.7	285.4	353.2	391.8	398.8
157.5°	271.3	285.4	345.0	381.3	388.3
160°	276.0	285.4	335.7	370.7	376.6
162.5°	281.9	285.4	322.8	355.5	361.4
165°	287.7	286.5	313.4	340.3	345.0
167.5°	291.2	286.5	304.1	321.6	326.3
170°	293.6	288.9	295.9	308.8	309.9
172.5°	294.7	291.2	290.1	295.9	295.9
175°	294.7	291.2	290.1	290.1	287.7
177.5°	294.7	292.4	292.4	291.2	287.7
180°	292.4	292.4	292.4	292.4	292.4

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