

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: P275074

Luminaire Tested: **J3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275074  
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-20L82765-1D-UNV-W2A-W-4 (4000K)  
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 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2240.7 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

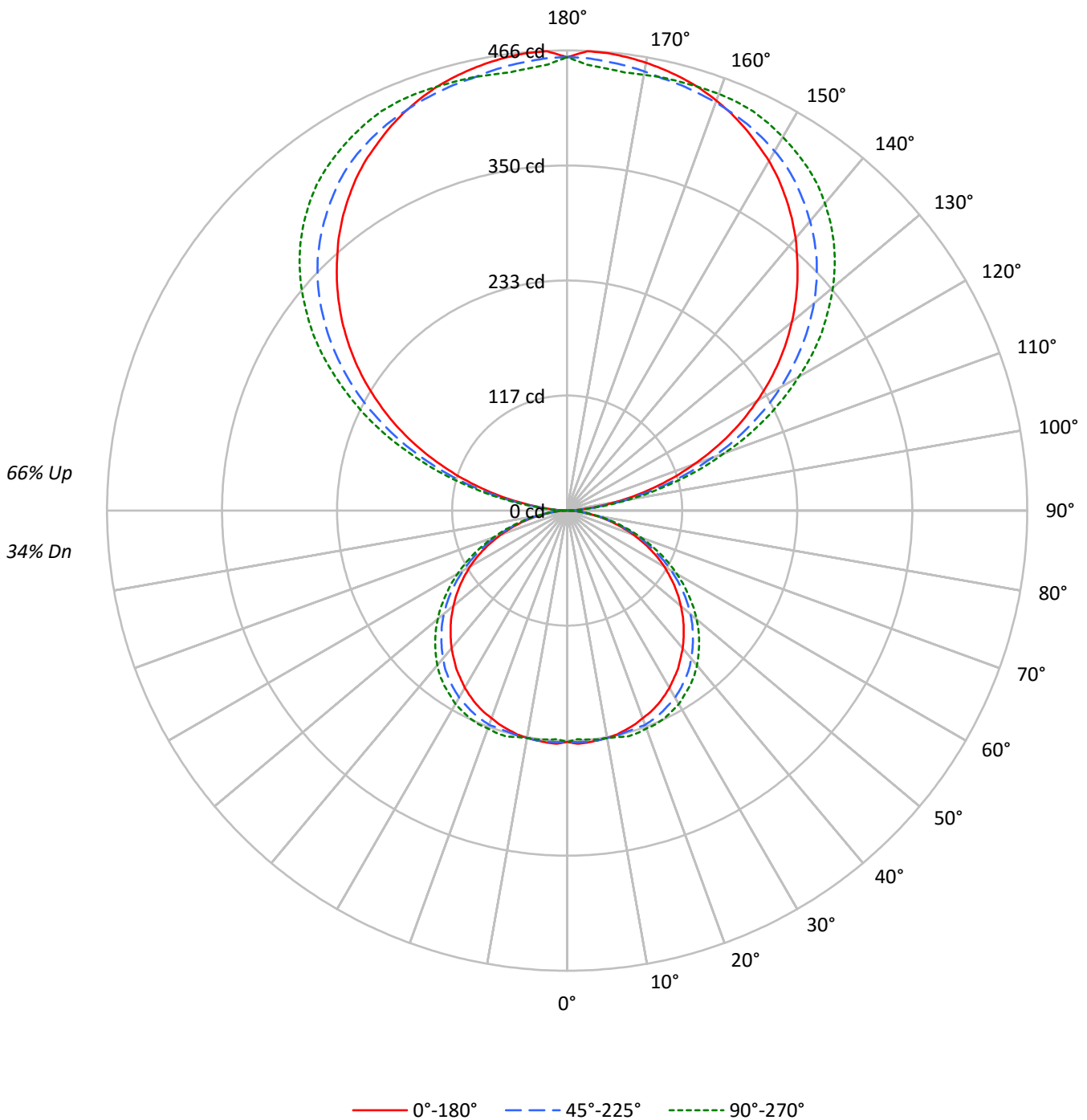
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1891	1891	1891
5°	1911	1903	1887
10°	1917	1917	1917
15°	1920	1937	1980
20°	1922	1983	2017
25°	1931	2011	2069
30°	1931	2039	2110
35°	1928	2056	2137
40°	1919	2061	2156
45°	1907	2055	2158
50°	1888	2046	2148
55°	1868	2017	2115
60°	1834	1965	2070
65°	1777	1891	1998
70°	1674	1782	1874
75°	1538	1631	1709
80°	1334	1427	1474
85°	1065	1112	1167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	1.0
10°-20°	65.7	2.9
20°-30°	103.5	4.6
30°-40°	129.4	5.8
40°-50°	137.9	6.2
50°-60°	127.2	5.7
60°-70°	97.7	4.4
70°-80°	55.3	2.5
80°-90°	14.6	0.7
90°-100°	23.5	1.0
100°-110°	110.6	4.9
110°-120°	200.4	8.9
120°-130°	257.4	11.5
130°-140°	273.8	12.2
140°-150°	251.9	11.2
150°-160°	199.5	8.9
160°-170°	126.6	5.7
170°-180°	43.4	1.9
0°-30°	191.6	8.6
0°-40°	321.0	14.3
0°-60°	586.0	26.2
0°-90°	753.6	33.6
90°-120°	334.4	14.9
90°-150°	1117.5	49.9
90°-180°	1487.0	66.4
0°-180°	2240.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	234	234	234	234	234	
5°	236	234	235	234	233	22
15°	230	229	232	236	237	65
25°	217	217	226	230	232	100
35°	196	199	209	214	217	122
45°	167	171	180	186	189	129
55°	133	137	143	148	150	118
65°	93	95	99	103	105	92
75°	49	50	52	54	55	52
85°	12	12	12	13	13	13
90°	0	0	0	0	0	2
95°	16	16	18	19	20	20
105°	93	97	106	112	115	98
115°	181	189	205	217	223	179
125°	262	270	290	306	315	233
135°	330	335	358	373	382	254
145°	386	385	404	417	424	242
155°	427	421	432	441	446	197
165°	453	446	446	448	449	128
175°	465	460	456	453	450	44
180°	459	459	459	459	459	



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CATALOG NUMBER: J3-FL-20L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	234.3	234.3	234.3	234.3	234.3
2.5°	236.3	234.3	234.8	234.8	231.8
5°	235.8	233.8	234.8	234.3	232.8
7.5°	234.8	233.3	234.8	234.8	233.8
10°	233.8	232.3	233.8	234.3	233.8
12.5°	232.3	230.8	233.3	234.3	234.8
15°	229.7	228.7	231.8	235.8	236.9
17.5°	227.3	226.8	231.3	235.8	236.3
20°	223.7	223.7	230.8	234.3	234.8
22.5°	220.8	220.8	228.7	232.3	234.3
25°	216.8	217.2	225.8	230.4	232.3
27.5°	212.2	213.7	222.2	227.3	229.3
30°	207.2	209.7	218.7	223.7	226.3
32.5°	201.2	204.6	213.7	218.7	221.2
35°	195.6	199.1	208.6	213.7	216.8
37.5°	188.6	193.1	202.6	207.6	211.2
40°	182.1	186.6	195.6	201.2	204.6
42.5°	174.5	179.5	188.1	193.6	197.1
45°	167.0	171.4	180.0	185.6	189.0
47.5°	158.9	163.5	172.0	177.1	180.5
50°	150.3	155.3	162.9	167.9	171.0
52.5°	141.7	146.3	153.4	158.5	161.4
55°	132.7	136.7	143.3	147.9	150.3
57.5°	123.1	127.2	132.7	137.3	139.8
60°	113.6	116.6	121.7	126.2	128.2
62.5°	103.6	106.1	110.6	114.2	116.6
65°	93.0	95.1	99.0	102.6	104.6
67.5°	82.0	84.0	87.5	90.5	92.0
70°	70.9	72.9	75.5	77.9	79.4
72.5°	60.3	61.3	63.8	65.9	66.9
75°	49.3	50.3	52.3	54.3	54.8
77.5°	39.3	39.7	41.3	42.3	42.7
80°	28.7	29.7	30.7	31.1	31.7
82.5°	19.6	20.1	20.6	21.1	21.6
85°	11.5	12.0	12.0	12.6	12.6
87.5°	5.0	5.5	5.5	5.5	5.5
90°	0.5	0.5	0.5	0.0	0.0
92.5°	5.0	5.0	5.5	6.0	6.5
95°	15.6	16.1	17.6	18.6	19.6
97.5°	31.1	32.2	35.1	37.7	38.7
100°	50.3	52.3	56.9	60.3	61.9
102.5°	70.9	73.9	80.5	85.5	88.0
105°	92.6	96.6	105.6	112.1	115.2
107.5°	114.6	119.7	131.3	138.8	142.8
110°	136.7	143.3	155.9	165.9	168.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	158.9	165.9	181.0	192.1	197.6
115°	181.0	188.6	204.6	217.2	223.3
117.5°	202.2	210.1	227.8	241.9	247.3
120°	222.2	230.8	249.9	264.5	271.0
122.5°	242.3	250.5	270.5	286.1	294.2
125°	261.5	269.5	290.2	306.2	314.8
127.5°	279.6	287.0	308.8	325.3	333.4
130°	297.2	304.2	326.3	342.5	351.5
132.5°	313.8	320.3	342.5	358.0	367.6
135°	329.9	334.9	357.5	373.1	382.2
137.5°	344.9	348.5	370.7	386.2	394.8
140°	360.0	361.1	382.6	397.2	406.2
142.5°	373.6	373.1	393.7	407.8	416.4
145°	386.2	384.7	404.3	416.8	424.4
147.5°	398.2	394.8	413.3	424.0	430.9
150°	408.8	404.3	420.4	430.9	436.9
152.5°	417.8	412.8	426.4	435.9	441.9
155°	426.9	420.9	431.9	440.9	446.0
157.5°	435.0	427.4	435.9	444.0	448.1
160°	441.9	434.5	440.0	446.0	449.1
162.5°	448.1	440.5	443.0	446.5	449.1
165°	453.1	446.0	446.0	447.5	449.1
167.5°	457.0	451.0	448.1	448.5	449.1
170°	460.6	454.5	451.5	448.5	448.1
172.5°	463.1	457.0	454.5	450.5	447.5
175°	465.1	459.6	456.5	453.1	449.5
177.5°	465.6	461.1	458.6	455.1	452.0
180°	459.1	459.1	459.1	459.1	459.1

(END OF REPORT)