

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: P253476

Luminaire Tested: **J3-CL-20L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253476  
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-20L93050-1D-UNV-W2A-W-4 (3500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1906.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

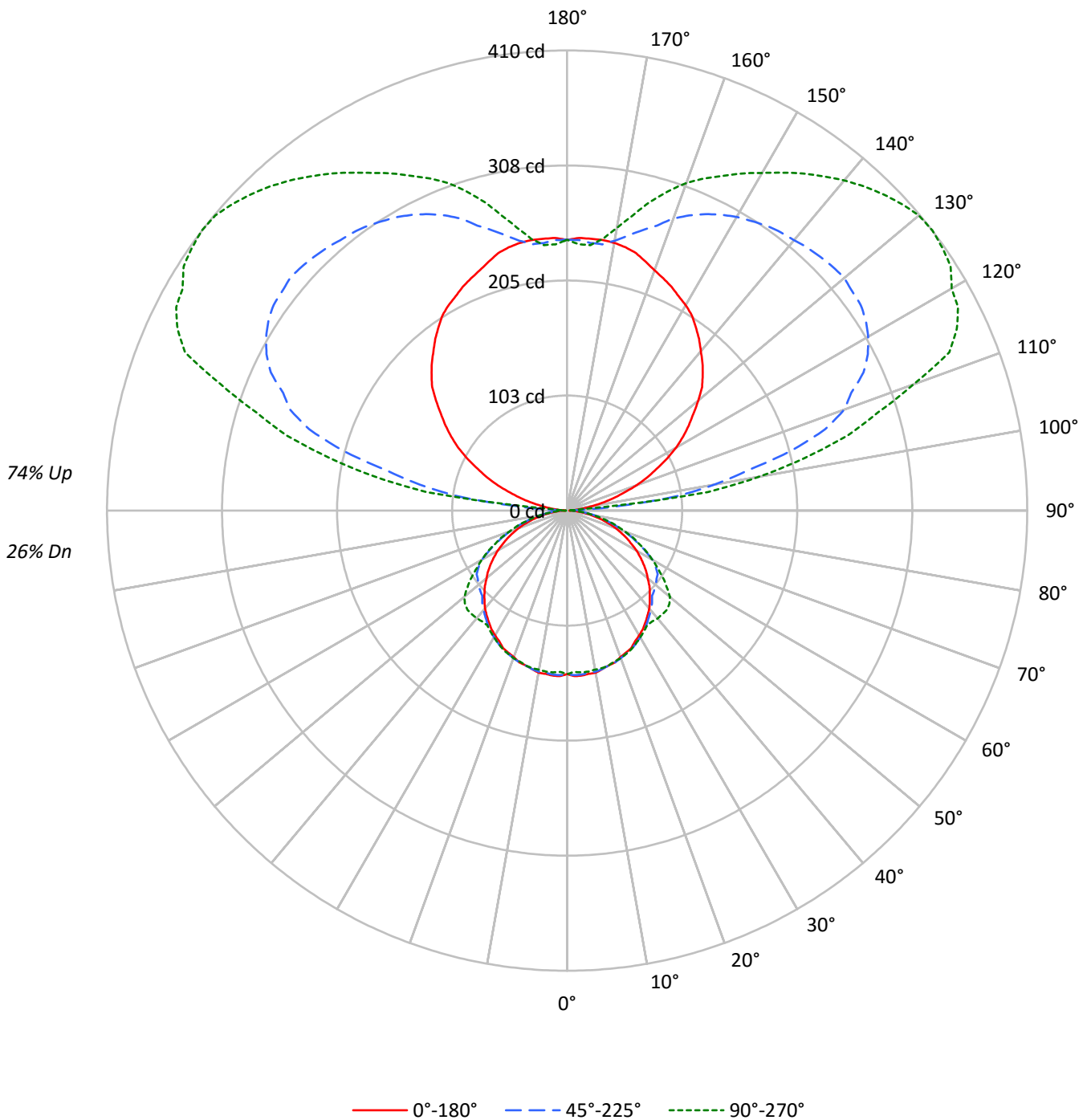
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1176	1176	1176
5°	1196	1189	1173
10°	1203	1194	1179
15°	1193	1193	1193
20°	1193	1202	1202
25°	1203	1211	1211
30°	1196	1215	1215
35°	1198	1217	1227
40°	1200	1220	1322
45°	1190	1223	1432
50°	1176	1296	1502
55°	1168	1385	1467
60°	1153	1418	1418
65°	1125	1345	1364
70°	1093	1275	1298
75°	1023	1204	1235
80°	944	1167	1120
85°	889	1250	1074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.9	0.7
10°-20°	40.3	2.1
20°-30°	62.3	3.3
30°-40°	77.3	4.1
40°-50°	86.5	4.5
50°-60°	84.5	4.4
60°-70°	66.7	3.5
70°-80°	40.3	2.1
80°-90°	14.4	0.8
90°-100°	49.5	2.6
100°-110°	191.5	10.0
110°-120°	263.2	13.8
120°-130°	266.2	14.0
130°-140°	236.0	12.4
140°-150°	186.6	9.8
150°-160°	130.3	6.8
160°-170°	73.7	3.9
170°-180°	23.1	1.2
0°-30°	116.5	6.1
0°-40°	193.8	10.2
0°-60°	364.8	19.1
0°-90°	486.2	25.5
90°-120°	504.2	26.4
90°-150°	1193.0	62.6
90°-180°	1420.0	74.5
0°-180°	1906.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	146	146	146	146	146	
5°	148	146	147	146	145	14
15°	143	142	143	143	143	40
25°	135	133	136	136	136	62
35°	122	122	124	124	124	76
45°	104	105	107	121	125	80
55°	83	84	98	104	104	74
65°	59	62	70	71	71	58
75°	33	39	39	40	40	35
85°	10	15	14	12	12	10
90°	2	6	5	1	1	2
95°	8	39	46	10	10	10
105°	42	137	207	239	259	45
115°	88	185	291	361	383	88
125°	132	214	319	389	408	118
135°	171	235	319	382	398	132
145°	200	241	310	355	367	125
155°	220	235	291	323	329	101
165°	237	236	259	281	285	67
175°	243	240	239	239	237	23
180°	241	241	241	241	241	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	145.7	145.7	145.7	145.7	145.7
2.5°	147.6	145.7	146.7	145.7	143.8
5°	147.6	145.7	146.7	145.7	144.7
7.5°	146.7	145.7	145.7	144.7	144.7
10°	146.7	144.7	145.7	144.7	143.8
12.5°	144.7	143.8	144.7	143.8	143.8
15°	142.8	141.8	142.8	142.8	142.8
17.5°	141.8	139.9	141.8	141.8	140.9
20°	138.9	138.0	139.9	139.9	139.9
22.5°	137.0	136.0	138.0	138.0	138.0
25°	135.1	133.2	136.0	136.0	136.0
27.5°	131.2	131.2	133.2	134.1	133.2
30°	128.3	127.4	130.3	131.2	130.3
32.5°	125.4	124.5	127.4	128.3	127.4
35°	121.6	121.6	123.5	124.5	124.5
37.5°	117.7	117.7	119.6	120.6	124.5
40°	113.9	113.9	115.8	121.6	125.4
42.5°	109.0	109.0	111.9	120.6	125.4
45°	104.2	105.2	107.1	120.6	125.4
47.5°	99.4	100.3	105.2	119.6	123.5
50°	93.6	95.5	103.2	116.8	119.6
52.5°	88.8	89.7	100.3	111.9	111.9
55°	83.0	83.9	98.4	104.2	104.2
57.5°	77.2	78.2	93.6	95.5	95.5
60°	71.4	72.4	87.8	87.8	87.8
62.5°	64.6	66.6	79.1	80.1	80.1
65°	58.9	61.8	70.4	71.4	71.4
67.5°	52.1	56.9	62.7	63.7	63.7
70°	46.3	52.1	54.0	55.0	55.0
72.5°	39.6	45.3	46.3	47.3	47.3
75°	32.8	38.6	38.6	39.6	39.6
77.5°	26.1	30.9	31.8	31.8	31.8
80°	20.3	23.2	25.1	24.1	24.1
82.5°	14.5	18.3	18.3	18.3	17.4
85°	9.6	15.4	13.5	12.5	11.6
87.5°	5.8	13.5	7.7	6.8	6.8
90°	1.9	5.8	4.8	1.0	1.0
92.5°	3.9	9.6	4.8	3.9	2.9
95°	7.7	38.6	46.3	9.6	9.6
97.5°	14.5	64.6	99.4	117.7	126.4
100°	22.2	96.5	133.2	163.1	173.7
102.5°	31.8	116.8	164.0	201.7	217.1
105°	42.5	137.0	207.4	239.3	258.6
107.5°	53.1	152.5	241.2	276.9	290.4
110°	65.6	165.0	262.4	324.2	328.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	77.2	174.6	274.0	347.4	368.6
115°	87.8	185.3	291.4	360.9	383.1
117.5°	100.3	193.0	302.0	368.6	392.7
120°	111.9	199.7	309.7	378.2	395.6
122.5°	122.5	207.4	315.5	386.0	405.2
125°	132.2	214.2	319.4	388.8	408.1
127.5°	141.8	220.0	320.3	389.8	410.1
130°	152.5	225.8	322.3	388.8	409.1
132.5°	163.1	231.6	321.3	386.0	404.3
135°	170.8	235.4	319.4	382.1	398.5
137.5°	178.5	238.3	317.4	376.3	391.7
140°	185.3	240.3	314.5	369.5	384.0
142.5°	193.0	241.2	312.6	362.8	375.3
145°	199.7	241.2	309.7	355.1	366.7
147.5°	206.5	240.3	305.9	347.4	357.0
150°	211.3	238.3	302.0	339.6	347.4
152.5°	215.2	236.4	297.2	331.0	338.7
155°	220.0	235.4	291.4	323.2	329.0
157.5°	223.9	235.4	284.6	314.5	320.3
160°	227.7	235.4	276.9	305.9	310.7
162.5°	232.5	235.4	266.3	293.3	298.1
165°	237.4	236.4	258.6	280.8	284.6
167.5°	240.3	236.4	250.9	265.3	269.2
170°	242.2	238.3	244.1	254.7	255.7
172.5°	243.1	240.3	239.3	244.1	244.1
175°	243.1	240.3	239.3	239.3	237.4
177.5°	243.1	241.2	241.2	240.3	237.4
180°	241.2	241.2	241.2	241.2	241.2

(END OF REPORT)