

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: P253421

Luminaire Tested: **J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2777.6 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

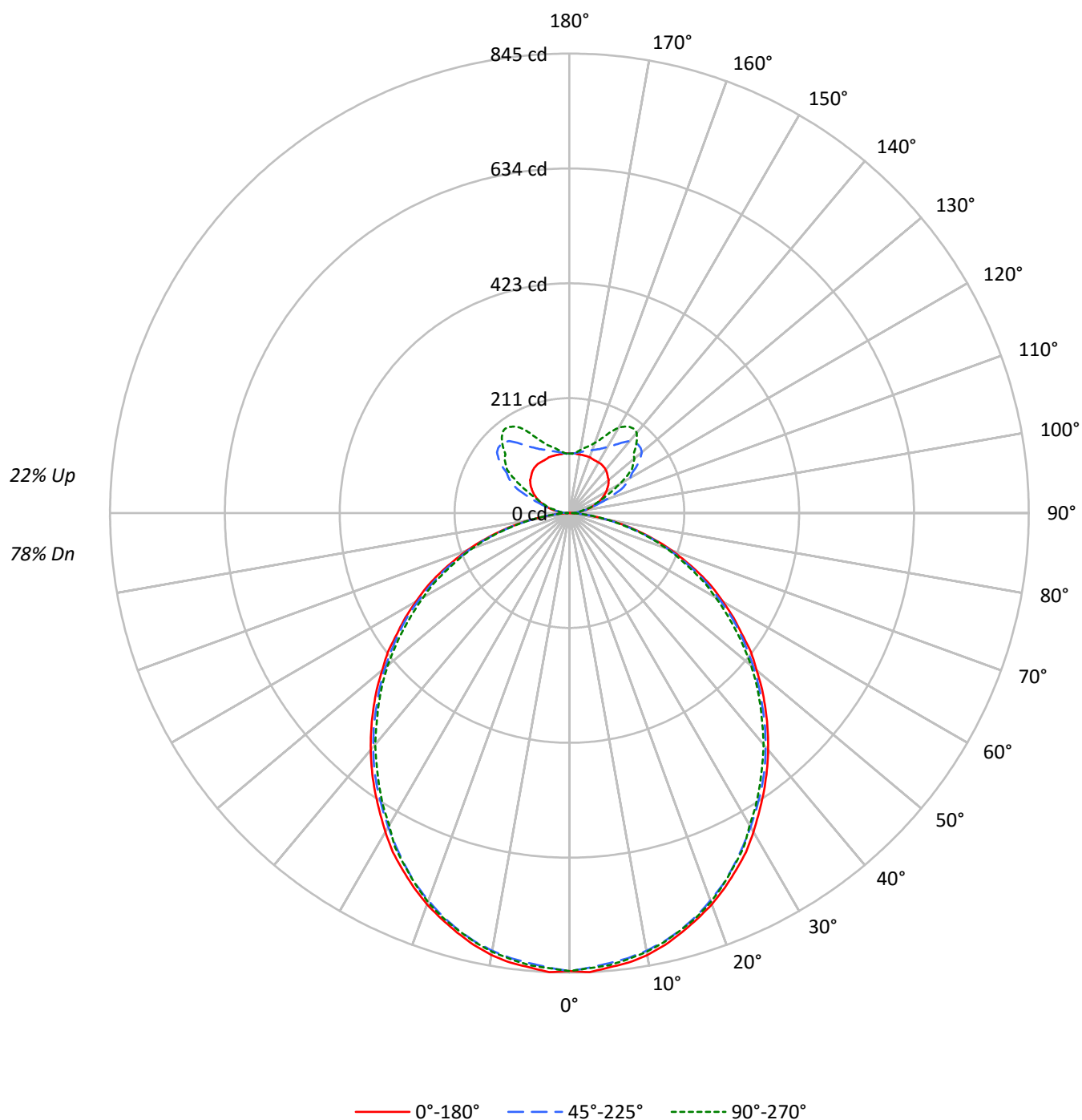
Input Watts (W): 26.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253421

CATALOG NUMBER: J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253421

CATALOG NUMBER: J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	100	96	92	99	95	92	89	87	84	82	80	77	75	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	46	43	40		
5	73	61	52	46	69	58	50	45	54	47	42	50	44	40	46	41	37	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	41	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6800	6800	6800
5°	6796	6735	6765
10°	6767	6698	6714
15°	6673	6626	6634
20°	6578	6515	6539
25°	6454	6372	6380
30°	6311	6215	6180
35°	6148	6074	6019
40°	5993	5914	5855
45°	5821	5726	5662
50°	5642	5559	5477
55°	5441	5375	5244
60°	5262	5157	5021
65°	5049	4923	4762
70°	4716	4563	4475
75°	4195	4049	4021
80°	3384	3301	3301
85°	2075	2251	2251



TEST NUMBER: P253421

CATALOG NUMBER: J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	2.9
10°-20°	224.4	8.1
20°-30°	330.8	11.9
30°-40°	386.2	13.9
40°-50°	387.8	14.0
50°-60°	341.3	12.3
60°-70°	254.2	9.2
70°-80°	139.0	5.0
80°-90°	31.6	1.1
90°-100°	16.1	0.6
100°-110°	50.9	1.8
110°-120°	95.5	3.4
120°-130°	120.4	4.3
130°-140°	118.5	4.3
140°-150°	95.8	3.4
150°-160°	61.5	2.2
160°-170°	33.6	1.2
170°-180°	10.7	0.4
0°-30°	634.5	22.8
0°-40°	1020.7	36.7
0°-60°	1749.8	63.0
0°-90°	2174.6	78.3
90°-120°	162.5	5.9
90°-150°	497.1	17.9
90°-180°	603.0	21.7
0°-180°	2777.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	839	837	831	838	835	80
15°	798	799	793	796	794	225
25°	725	720	715	717	716	334
35°	624	623	616	613	611	390
45°	510	509	502	496	496	394
55°	387	388	382	375	373	347
65°	264	262	258	251	249	261
75°	134	133	130	130	129	143
85°	22	23	24	25	24	29
90°	1	2	3	4	3	2
95°	15	14	14	15	16	15
105°	42	67	44	43	40	44
115°	67	134	106	80	75	66
125°	87	138	151	140	140	77
135°	99	123	178	179	173	77
145°	106	120	155	187	193	67
155°	107	117	130	148	157	50
165°	109	112	118	123	126	31
175°	110	110	110	112	111	10
180°	109	109	109	109	109	



TEST NUMBER: P253421

CATALOG NUMBER: J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.3	842.3	842.3	842.3	842.3
2.5°	845.1	840.4	836.7	841.4	837.6
5°	838.6	836.7	831.1	837.6	834.8
7.5°	833.9	831.1	825.5	831.1	827.4
10°	825.5	823.6	817.1	820.8	819.0
12.5°	813.4	813.4	806.8	810.6	807.8
15°	798.4	799.3	792.8	796.5	793.7
17.5°	782.5	783.5	776.9	780.7	778.8
20°	765.7	762.9	758.3	761.1	761.1
22.5°	746.1	742.4	738.6	738.6	739.6
25°	724.6	720.0	715.3	717.2	716.2
27.5°	703.2	697.6	691.0	693.8	693.8
30°	677.0	673.3	666.7	668.6	663.0
32.5°	649.9	648.1	641.5	640.6	637.8
35°	623.8	622.9	616.3	612.6	610.7
37.5°	596.7	596.7	590.2	586.4	582.7
40°	568.7	566.8	561.2	556.6	555.6
42.5°	539.7	538.8	532.3	526.7	524.8
45°	509.9	508.9	501.5	495.9	495.9
47.5°	480.9	478.1	472.5	466.0	466.9
50°	449.2	449.2	442.6	437.0	436.1
52.5°	421.2	418.3	411.8	408.1	404.3
55°	386.6	388.5	381.9	375.4	372.6
57.5°	357.7	357.7	352.0	344.6	340.8
60°	325.9	325.9	319.4	314.7	311.0
62.5°	297.0	295.1	288.5	282.9	282.0
65°	264.3	262.4	257.7	251.2	249.3
67.5°	230.7	229.7	224.1	220.4	219.4
70°	199.8	197.0	193.3	190.5	189.6
72.5°	167.2	164.4	162.5	159.7	159.7
75°	134.5	132.6	129.8	129.8	128.9
77.5°	103.7	101.8	101.8	99.9	98.1
80°	72.8	73.8	71.0	71.0	71.0
82.5°	45.8	46.7	44.8	44.8	44.8
85°	22.4	23.3	24.3	25.2	24.3
87.5°	6.5	8.4	10.3	11.2	10.3
90°	0.9	1.9	2.8	3.7	2.8
92.5°	7.5	8.4	10.3	11.2	11.2
95°	14.9	14.0	14.0	14.9	15.9
97.5°	21.5	22.4	17.7	18.7	18.7
100°	28.9	35.5	27.1	22.4	22.4
102.5°	35.5	51.4	35.5	30.8	28.0
105°	42.0	67.2	43.9	43.0	40.2
107.5°	48.6	82.2	56.0	45.8	45.8
110°	56.0	99.9	71.0	56.0	52.3



TEST NUMBER: P253421

CATALOG NUMBER: J2-WL-30L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.6	119.5	87.8	66.3	62.6
115°	67.2	133.5	106.5	80.3	74.7
117.5°	72.8	140.1	118.6	98.1	89.6
120°	77.5	142.9	128.9	115.8	106.5
122.5°	82.2	141.9	136.3	131.7	124.2
125°	86.8	138.2	151.3	140.1	140.1
127.5°	90.6	132.6	164.4	148.5	147.5
130°	94.3	127.9	173.7	153.1	155.9
132.5°	96.2	125.1	177.4	166.2	159.7
135°	99.0	123.3	178.4	179.3	172.8
137.5°	101.8	123.3	176.5	187.7	184.0
140°	103.7	122.3	172.8	191.4	192.4
142.5°	105.5	120.5	164.4	190.5	195.2
145°	106.5	119.5	155.0	186.8	193.3
147.5°	107.4	118.6	146.6	180.2	188.6
150°	107.4	117.7	140.1	170.9	181.2
152.5°	107.4	116.7	134.5	158.7	170.0
155°	107.4	116.7	129.8	148.5	156.9
157.5°	108.3	114.9	126.1	140.1	145.7
160°	109.3	113.9	123.3	133.5	137.3
162.5°	109.3	113.0	120.5	127.9	130.7
165°	109.3	112.1	117.7	123.3	126.1
167.5°	109.3	112.1	115.8	120.5	122.3
170°	109.3	111.1	113.9	116.7	117.7
172.5°	109.3	111.1	112.1	113.9	113.9
175°	110.2	110.2	110.2	112.1	111.1
177.5°	110.2	110.2	109.3	110.2	109.3
180°	109.3	109.3	109.3	109.3	109.3

(END OF REPORT)