

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: P253413

Luminaire Tested: **J2-WL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253413
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-30L83050-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2812.3 lumens
Efficiency: N/A
Efficacy: 109.4 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

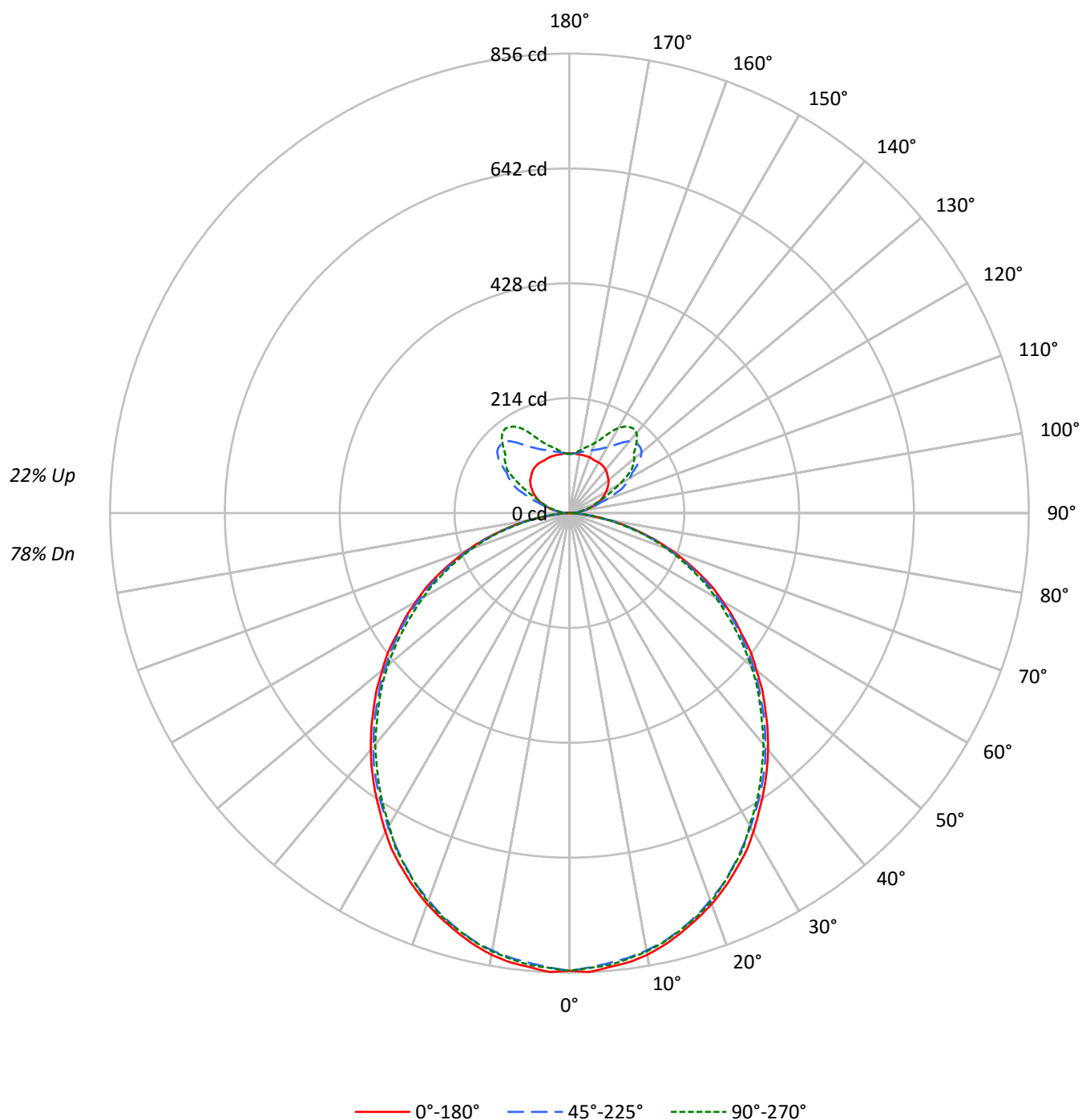
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253413

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253413

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

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°	6885	6885	6885
5°	6881	6819	6850
10°	6851	6782	6797
15°	6756	6709	6717
20°	6661	6595	6620
25°	6535	6452	6460
30°	6390	6293	6258
35°	6225	6150	6094
40°	6068	5988	5929
45°	5893	5796	5732
50°	5712	5629	5545
55°	5509	5443	5310
60°	5328	5222	5084
65°	5112	4986	4821
70°	4775	4619	4530
75°	4248	4099	4070
80°	3426	3343	3343
85°	2103	2279	2279



TEST NUMBER: P253413

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	2.9
10°-20°	227.2	8.1
20°-30°	335.0	11.9
30°-40°	391.0	13.9
40°-50°	392.7	14.0
50°-60°	345.5	12.3
60°-70°	257.4	9.2
70°-80°	140.8	5.0
80°-90°	32.0	1.1
90°-100°	16.3	0.6
100°-110°	51.5	1.8
110°-120°	96.7	3.4
120°-130°	121.9	4.3
130°-140°	120.0	4.3
140°-150°	97.0	3.4
150°-160°	62.3	2.2
160°-170°	34.1	1.2
170°-180°	10.8	0.4
0°-30°	642.4	22.8
0°-40°	1033.4	36.7
0°-60°	1771.7	63.0
0°-90°	2201.8	78.3
90°-120°	164.5	5.9
90°-150°	503.3	17.9
90°-180°	610.0	21.7
0°-180°	2812.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	849	847	842	848	845	81
15°	808	809	803	806	804	228
25°	734	729	724	726	725	338
35°	632	631	624	620	618	395
45°	516	515	508	502	502	399
55°	391	393	387	380	377	352
65°	268	266	261	254	252	264
75°	136	134	131	131	130	145
85°	23	24	25	26	25	30
90°	1	2	3	4	3	2
95°	15	14	14	15	16	15
105°	42	68	44	44	41	45
115°	68	135	108	81	76	67
125°	88	140	153	142	142	78
135°	100	125	181	182	175	78
145°	108	121	157	189	196	68
155°	109	118	131	150	159	51
165°	111	114	119	125	128	31
175°	112	112	112	114	112	11
180°	111	111	111	111	111	



TEST NUMBER: P253413

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.8	852.8	852.8	852.8	852.8
2.5°	855.7	851.0	847.2	851.9	848.1
5°	849.1	847.2	841.5	848.1	845.3
7.5°	844.3	841.5	835.8	841.5	837.7
10°	835.8	833.9	827.3	831.1	829.2
12.5°	823.5	823.5	816.9	820.7	817.9
15°	808.4	809.3	802.7	806.5	803.7
17.5°	792.3	793.3	786.7	790.4	788.5
20°	775.3	772.5	767.7	770.6	770.6
22.5°	755.5	751.7	747.9	747.9	748.8
25°	733.7	729.0	724.3	726.1	725.2
27.5°	712.0	706.3	699.7	702.5	702.5
30°	685.5	681.7	675.1	677.0	671.3
32.5°	658.1	656.2	649.6	648.6	645.8
35°	631.6	630.6	624.0	620.2	618.4
37.5°	604.2	604.2	597.6	593.8	590.0
40°	575.8	573.9	568.2	563.5	562.6
42.5°	546.5	545.6	538.9	533.3	531.4
45°	516.2	515.3	507.7	502.1	502.1
47.5°	486.9	484.1	478.4	471.8	472.8
50°	454.8	454.8	448.2	442.5	441.5
52.5°	426.4	423.6	417.0	413.2	409.4
55°	391.4	393.3	386.7	380.1	377.3
57.5°	362.1	362.1	356.5	348.9	345.1
60°	330.0	330.0	323.4	318.6	314.9
62.5°	300.7	298.8	292.2	286.5	285.5
65°	267.6	265.7	261.0	254.3	252.4
67.5°	233.5	232.6	226.9	223.1	222.2
70°	202.3	199.5	195.7	192.9	191.9
72.5°	169.2	166.4	164.5	161.7	161.7
75°	136.2	134.3	131.4	131.4	130.5
77.5°	105.0	103.1	103.1	101.2	99.3
80°	73.7	74.7	71.9	71.9	71.9
82.5°	46.3	47.3	45.4	45.4	45.4
85°	22.7	23.6	24.6	25.5	24.6
87.5°	6.6	8.5	10.4	11.3	10.4
90°	0.9	1.9	2.8	3.8	2.8
92.5°	7.6	8.5	10.4	11.3	11.3
95°	15.1	14.2	14.2	15.1	16.1
97.5°	21.7	22.7	18.0	18.9	18.9
100°	29.3	35.9	27.4	22.7	22.7
102.5°	35.9	52.0	35.9	31.2	28.4
105°	42.5	68.1	44.4	43.5	40.7
107.5°	49.2	83.2	56.7	46.3	46.3
110°	56.7	101.2	71.9	56.7	52.9



TEST NUMBER: P253413

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62.4	121.0	88.9	67.1	63.3
115°	68.1	135.2	107.8	81.3	75.6
117.5°	73.7	141.8	120.1	99.3	90.8
120°	78.5	144.7	130.5	117.2	107.8
122.5°	83.2	143.7	138.0	133.3	125.8
125°	87.9	139.9	153.2	141.8	141.8
127.5°	91.7	134.3	166.4	150.3	149.4
130°	95.5	129.5	175.9	155.1	157.9
132.5°	97.4	126.7	179.6	168.3	161.7
135°	100.2	124.8	180.6	181.5	174.9
137.5°	103.1	124.8	178.7	190.0	186.3
140°	105.0	123.9	174.9	193.8	194.8
142.5°	106.8	122.0	166.4	192.9	197.6
145°	107.8	121.0	157.0	189.1	195.7
147.5°	108.7	120.1	148.4	182.5	191.0
150°	108.7	119.1	141.8	173.0	183.4
152.5°	108.7	118.2	136.2	160.7	172.1
155°	108.7	118.2	131.4	150.3	158.8
157.5°	109.7	116.3	127.6	141.8	147.5
160°	110.6	115.4	124.8	135.2	139.0
162.5°	110.6	114.4	122.0	129.5	132.4
165°	110.6	113.5	119.1	124.8	127.6
167.5°	110.6	113.5	117.2	122.0	123.9
170°	110.6	112.5	115.4	118.2	119.1
172.5°	110.6	112.5	113.5	115.4	115.4
175°	111.6	111.6	111.6	113.5	112.5
177.5°	111.6	111.6	110.6	111.6	110.6
180°	110.6	110.6	110.6	110.6	110.6

(END OF REPORT)