

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: P274859

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-20L82765-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.7 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

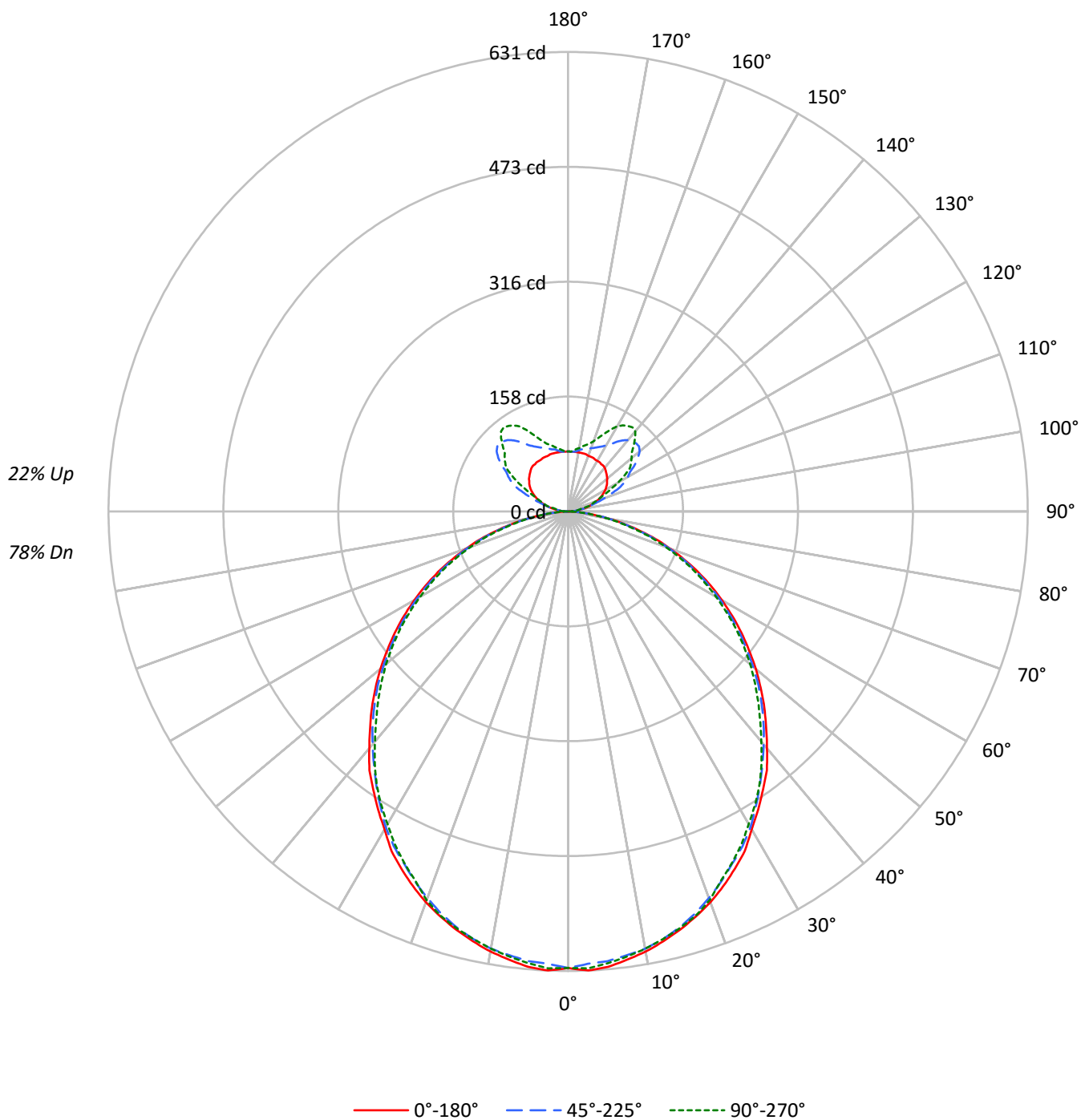
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	114	114	114	114	109	109	109	109	99	99	99		90	90	90		82
1	104	100	96	92	99	95	92	88	87	84	82		80	78	76		73
2	95	87	81	75	90	83	78	73	76	72	68		70	66	63		64
3	87	77	69	63	82	73	66	61	67	62	57		62	57	53		57
4	79	68	60	53	75	65	58	52	60	54	49		55	50	46		51
5	73	61	52	46	69	58	50	45	54	47	42		50	44	40		46
6	67	55	46	40	64	53	45	39	49	42	37		45	39	35		41
7	62	49	41	35	59	48	40	34	44	38	33		41	35	31		38
8	58	45	37	31	55	43	36	31	40	34	29		38	32	28		35
9	54	41	33	28	52	40	33	27	37	31	26		35	29	25		32
10	51	38	30	25	48	37	30	25	34	28	24		32	27	23		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5061	5061	5061
5°	5088	5023	5047
10°	5031	4997	4997
15°	4968	4942	4950
20°	4905	4853	4879
25°	4823	4751	4742
30°	4697	4669	4622
35°	4596	4526	4516
40°	4476	4401	4347
45°	4350	4292	4211
50°	4224	4160	4096
55°	4090	4018	3961
60°	3936	3872	3789
65°	3765	3687	3610
70°	3500	3453	3356
75°	3169	3075	2979
80°	2599	2599	2455
85°	1695	1788	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	2.8
10°-20°	167.2	8.1
20°-30°	247.0	11.9
30°-40°	288.3	13.9
40°-50°	290.0	14.0
50°-60°	255.5	12.3
60°-70°	191.0	9.2
70°-80°	105.0	5.1
80°-90°	24.6	1.2
90°-100°	11.6	0.6
100°-110°	37.7	1.8
110°-120°	70.8	3.4
120°-130°	89.2	4.3
130°-140°	87.9	4.2
140°-150°	71.5	3.4
150°-160°	46.1	2.2
160°-170°	25.2	1.2
170°-180°	8.0	0.4
0°-30°	473.2	22.8
0°-40°	761.6	36.7
0°-60°	1307.1	63.0
0°-90°	1627.8	78.4
90°-120°	120.1	5.8
90°-150°	368.7	17.8
90°-180°	448.0	21.6
0°-180°	2075.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	628	624	620	623	623	59
15°	594	594	591	593	592	168
25°	542	538	533	536	532	249
35°	466	465	459	458	458	292
45°	381	380	376	373	369	294
55°	291	291	286	281	281	260
65°	197	197	193	190	189	195
75°	102	101	99	98	96	108
85°	18	19	19	19	19	23
90°	0	0	0	0	0	2
95°	11	10	10	11	11	11
105°	32	50	32	32	30	33
115°	51	99	78	60	55	50
125°	65	103	112	104	104	58
135°	74	92	132	132	127	57
145°	79	89	117	139	143	50
155°	81	87	98	111	118	37
165°	82	84	88	92	94	23
175°	82	83	82	84	84	8
180°	82	82	82	82	82	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.9	626.9	626.9	626.9	626.9
2.5°	630.9	626.9	621.8	625.9	627.9
5°	627.9	623.8	619.8	622.8	622.8
7.5°	620.8	619.8	614.7	618.7	616.7
10°	613.7	612.6	609.6	612.6	609.6
12.5°	604.5	603.5	601.5	605.5	601.5
15°	594.4	594.4	591.3	593.3	592.3
17.5°	583.2	583.2	579.1	581.2	582.2
20°	571.0	569.0	564.9	566.9	567.9
22.5°	556.8	554.7	549.7	551.7	548.6
25°	541.5	538.5	533.4	536.4	532.4
27.5°	525.3	520.2	518.2	519.2	515.1
30°	503.9	502.9	500.9	498.9	495.8
32.5°	485.6	484.6	479.6	477.5	477.5
35°	466.3	465.3	459.2	458.2	458.2
37.5°	448.1	445.0	437.9	436.9	435.9
40°	424.7	423.7	417.6	415.5	412.5
42.5°	402.3	401.3	397.3	394.2	390.1
45°	381.0	380.0	375.9	372.9	368.8
47.5°	358.6	359.7	354.6	349.5	347.5
50°	336.3	337.3	331.2	327.2	326.1
52.5°	312.9	313.9	307.8	303.8	303.8
55°	290.6	290.6	285.5	281.4	281.4
57.5°	267.2	267.2	262.1	259.1	258.1
60°	243.8	242.8	239.8	236.7	234.7
62.5°	220.5	220.5	216.4	213.4	211.3
65°	197.1	197.1	193.0	190.0	189.0
67.5°	172.7	173.7	169.7	166.6	165.6
70°	148.3	148.3	146.3	142.2	142.2
72.5°	126.0	124.0	122.9	119.9	119.9
75°	101.6	100.6	98.6	97.5	95.5
77.5°	78.2	78.2	76.2	75.2	74.2
80°	55.9	57.9	55.9	54.9	52.8
82.5°	35.6	37.6	36.6	34.5	34.5
85°	18.3	19.3	19.3	19.3	19.3
87.5°	6.1	7.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	6.1	6.1	8.1	8.1	8.1
95°	11.2	10.2	10.2	11.2	11.2
97.5°	16.3	16.3	13.2	13.2	13.2
100°	21.3	26.4	20.3	16.3	16.3
102.5°	26.4	37.6	26.4	22.4	20.3
105°	31.5	49.8	32.5	32.5	30.5
107.5°	36.6	59.9	41.7	33.5	34.5
110°	41.7	74.2	51.8	41.7	39.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.7	88.4	65.0	49.8	46.7
115°	50.8	98.6	78.2	59.9	54.9
117.5°	54.9	103.6	87.4	73.2	66.0
120°	58.9	105.7	94.5	85.3	79.2
122.5°	62.0	105.7	100.6	97.5	91.4
125°	65.0	102.6	111.8	103.6	103.6
127.5°	67.1	99.6	120.9	109.7	108.7
130°	70.1	96.5	128.0	112.8	113.8
132.5°	72.1	93.5	132.1	122.9	117.9
135°	74.2	92.5	132.1	132.1	127.0
137.5°	76.2	91.4	131.1	139.2	136.1
140°	78.2	91.4	128.0	142.2	143.3
142.5°	79.2	90.4	122.9	142.2	145.3
145°	79.2	89.4	116.8	139.2	143.3
147.5°	80.3	88.4	109.7	134.1	140.2
150°	80.3	88.4	104.6	128.0	135.1
152.5°	80.3	87.4	100.6	118.9	127.0
155°	81.3	87.4	97.5	110.7	117.9
157.5°	81.3	86.4	94.5	104.6	109.7
160°	81.3	85.3	92.5	99.6	102.6
162.5°	82.3	84.3	90.4	95.5	97.5
165°	82.3	84.3	88.4	92.5	94.5
167.5°	82.3	83.3	87.4	90.4	91.4
170°	82.3	83.3	85.3	87.4	88.4
172.5°	82.3	83.3	83.3	85.3	86.4
175°	82.3	83.3	82.3	84.3	84.3
177.5°	82.3	82.3	82.3	82.3	82.3
180°	82.3	82.3	82.3	82.3	82.3

(END OF REPORT)