

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: P274857

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274857
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1996.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

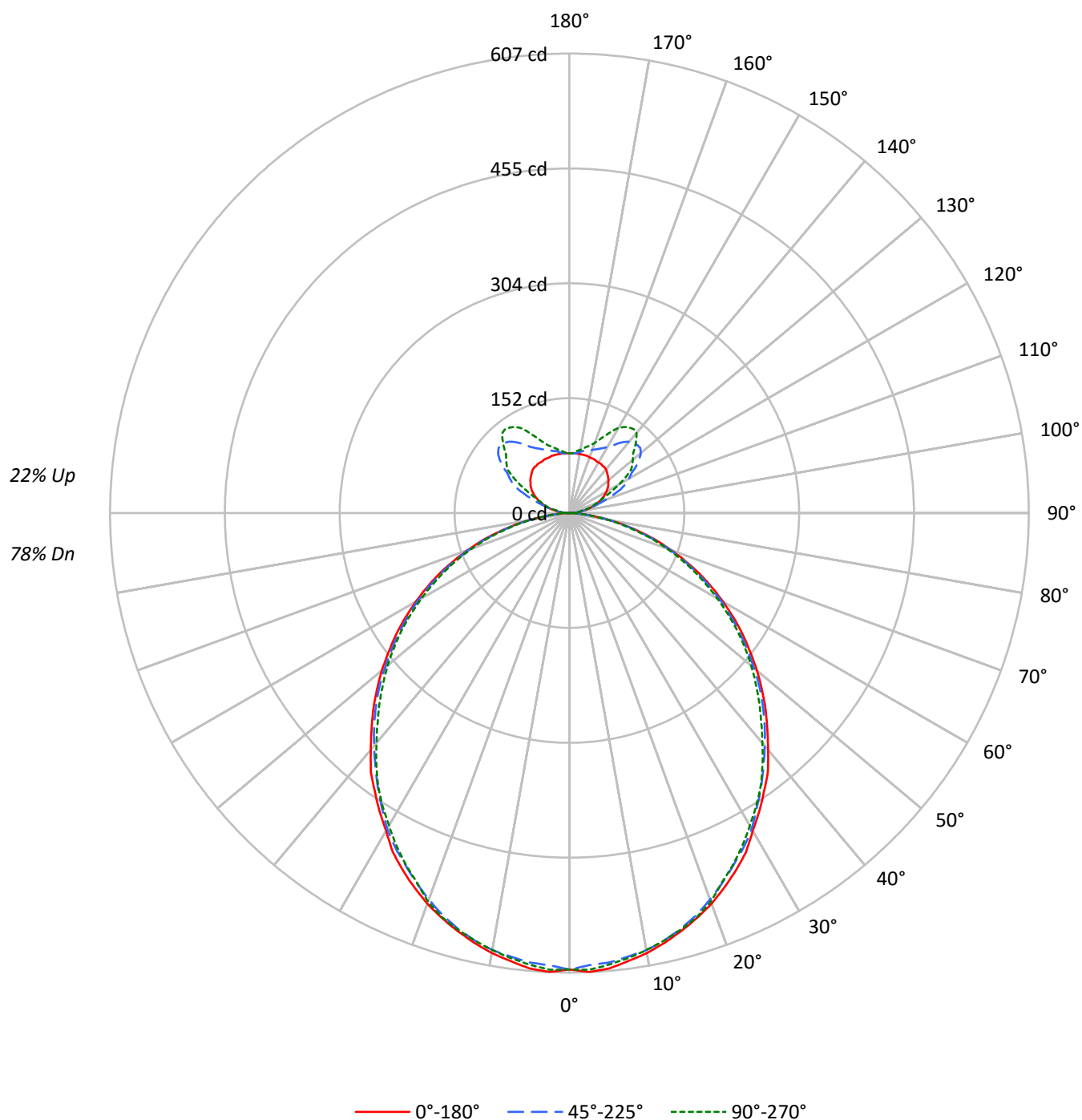
Input Watts (W): 17.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	88	87	84	82	80	78	76	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	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	43	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4866	4866	4866
5°	4893	4830	4853
10°	4837	4805	4805
15°	4776	4752	4761
20°	4717	4667	4692
25°	4638	4569	4560
30°	4517	4490	4445
35°	4419	4352	4342
40°	4304	4231	4181
45°	4183	4127	4050
50°	4062	4000	3939
55°	3932	3864	3809
60°	3786	3723	3644
65°	3620	3545	3471
70°	3366	3321	3229
75°	3047	2957	2863
80°	2497	2497	2362
85°	1630	1723	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	2.8
10°-20°	160.7	8.1
20°-30°	237.5	11.9
30°-40°	277.3	13.9
40°-50°	278.9	14.0
50°-60°	245.7	12.3
60°-70°	183.7	9.2
70°-80°	101.0	5.1
80°-90°	23.7	1.2
90°-100°	11.1	0.6
100°-110°	36.2	1.8
110°-120°	68.1	3.4
120°-130°	85.7	4.3
130°-140°	84.6	4.2
140°-150°	68.8	3.4
150°-160°	44.3	2.2
160°-170°	24.2	1.2
170°-180°	7.7	0.4
0°-30°	455.0	22.8
0°-40°	732.3	36.7
0°-60°	1256.9	63.0
0°-90°	1565.3	78.4
90°-120°	115.5	5.8
90°-150°	354.5	17.8
90°-180°	431.0	21.6
0°-180°	1996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	604	600	596	599	599	57
15°	572	572	569	571	570	161
25°	521	518	513	516	512	240
35°	448	448	442	441	441	281
45°	366	365	362	359	355	283
55°	279	279	274	271	271	250
65°	190	190	186	183	182	187
75°	98	97	95	94	92	103
85°	18	19	19	19	19	22
90°	0	0	0	0	0	2
95°	11	10	10	11	11	11
105°	30	48	31	31	29	32
115°	49	95	75	58	53	48
125°	62	99	108	100	100	56
135°	71	89	127	127	122	55
145°	76	86	112	134	138	48
155°	78	84	94	106	113	36
165°	79	81	85	89	91	22
175°	79	80	79	81	81	8
180°	79	79	79	79	79	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.8	602.8	602.8	602.8	602.8
2.5°	606.7	602.8	597.9	601.8	603.8
5°	603.8	599.9	596.0	598.9	598.9
7.5°	596.9	596.0	591.1	595.0	593.0
10°	590.1	589.1	586.2	589.1	586.2
12.5°	581.3	580.3	578.4	582.3	578.4
15°	571.5	571.5	568.6	570.6	569.6
17.5°	560.8	560.8	556.9	558.8	559.8
20°	549.1	547.1	543.2	545.2	546.1
22.5°	535.4	533.4	528.6	530.5	527.6
25°	520.7	517.8	512.9	515.9	511.9
27.5°	505.1	500.2	498.3	499.2	495.3
30°	484.6	483.6	481.7	479.7	476.8
32.5°	467.0	466.0	461.1	459.2	459.2
35°	448.4	447.5	441.6	440.6	440.6
37.5°	430.9	427.9	421.1	420.1	419.1
40°	408.4	407.4	401.5	399.6	396.7
42.5°	386.9	385.9	382.0	379.1	375.2
45°	366.4	365.4	361.5	358.6	354.7
47.5°	344.9	345.9	341.0	336.1	334.1
50°	323.4	324.4	318.5	314.6	313.6
52.5°	300.9	301.9	296.0	292.1	292.1
55°	279.4	279.4	274.5	270.6	270.6
57.5°	257.0	257.0	252.1	249.1	248.2
60°	234.5	233.5	230.6	227.6	225.7
62.5°	212.0	212.0	208.1	205.2	203.2
65°	189.5	189.5	185.6	182.7	181.7
67.5°	166.1	167.1	163.2	160.2	159.3
70°	142.6	142.6	140.7	136.8	136.8
72.5°	121.1	119.2	118.2	115.3	115.3
75°	97.7	96.7	94.8	93.8	91.8
77.5°	75.2	75.2	73.3	72.3	71.3
80°	53.7	55.7	53.7	52.8	50.8
82.5°	34.2	36.1	35.2	33.2	33.2
85°	17.6	18.6	18.6	18.6	18.6
87.5°	5.9	6.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.9	5.9	7.8	7.8	7.8
95°	10.7	9.8	9.8	10.7	10.7
97.5°	15.6	15.6	12.7	12.7	12.7
100°	20.5	25.4	19.5	15.6	15.6
102.5°	25.4	36.1	25.4	21.5	19.5
105°	30.3	47.9	31.3	31.3	29.3
107.5°	35.2	57.6	40.1	32.2	33.2
110°	40.1	71.3	49.8	40.1	38.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.9	85.0	62.5	47.9	44.9
115°	48.8	94.8	75.2	57.6	52.8
117.5°	52.8	99.7	84.0	70.3	63.5
120°	56.7	101.6	90.9	82.1	76.2
122.5°	59.6	101.6	96.7	93.8	87.9
125°	62.5	98.7	107.5	99.7	99.7
127.5°	64.5	95.7	116.3	105.5	104.5
130°	67.4	92.8	123.1	108.4	109.4
132.5°	69.4	89.9	127.0	118.2	113.3
135°	71.3	88.9	127.0	127.0	122.1
137.5°	73.3	87.9	126.0	133.8	130.9
140°	75.2	87.9	123.1	136.8	137.8
142.5°	76.2	87.0	118.2	136.8	139.7
145°	76.2	86.0	112.4	133.8	137.8
147.5°	77.2	85.0	105.5	129.0	134.8
150°	77.2	85.0	100.6	123.1	129.9
152.5°	77.2	84.0	96.7	114.3	122.1
155°	78.2	84.0	93.8	106.5	113.3
157.5°	78.2	83.0	90.9	100.6	105.5
160°	78.2	82.1	88.9	95.7	98.7
162.5°	79.1	81.1	87.0	91.8	93.8
165°	79.1	81.1	85.0	88.9	90.9
167.5°	79.1	80.1	84.0	87.0	87.9
170°	79.1	80.1	82.1	84.0	85.0
172.5°	79.1	80.1	80.1	82.1	83.0
175°	79.1	80.1	79.1	81.1	81.1
177.5°	79.1	79.1	79.1	79.1	79.1
180°	79.1	79.1	79.1	79.1	79.1

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