

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: P274855

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274855
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 (2700K)
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 2700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.5 lumens
Efficiency: N/A
Efficacy: 110.3 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

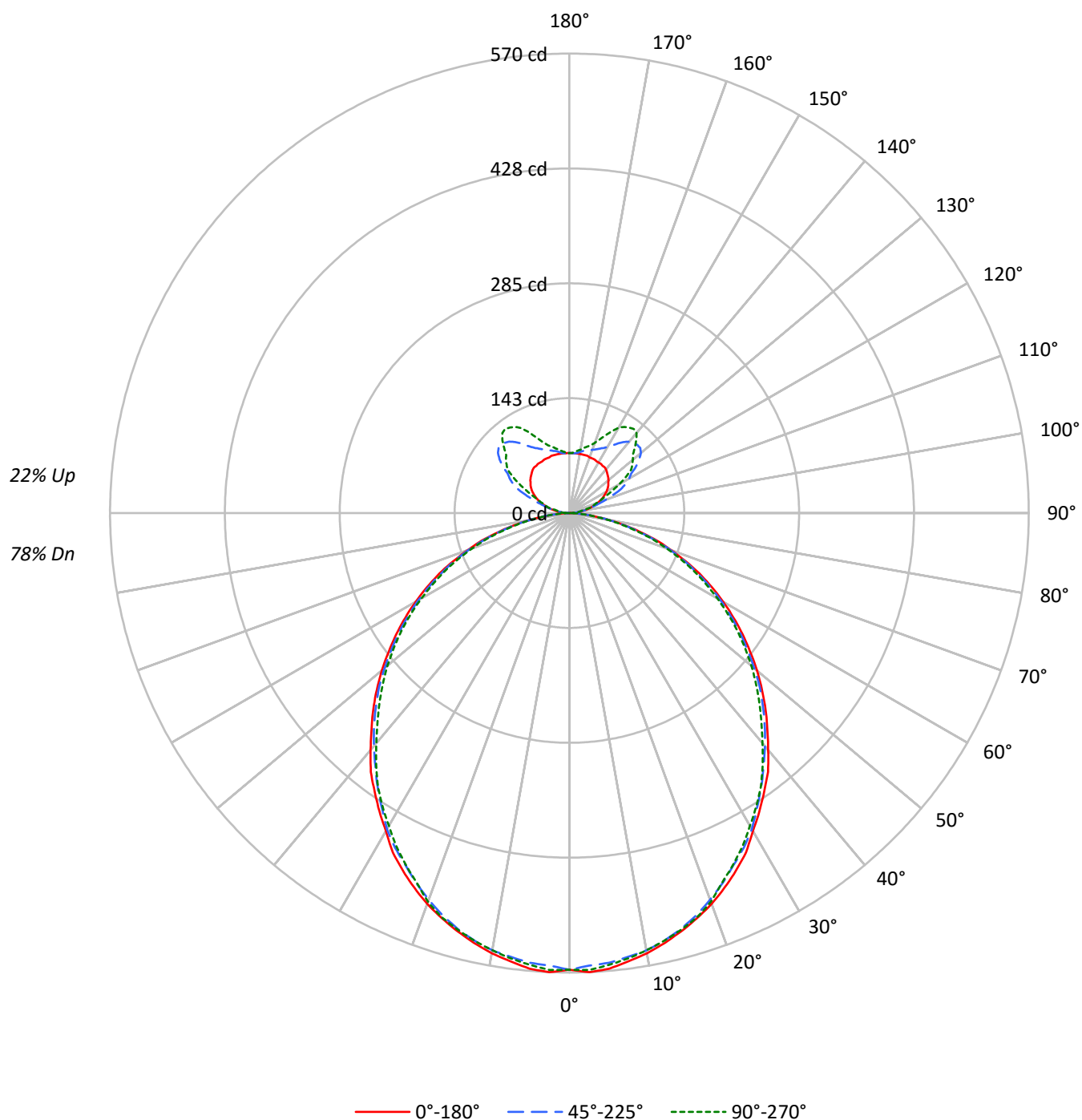
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4573	4573	4573
5°	4597	4538	4560
10°	4546	4515	4515
15°	4488	4466	4473
20°	4432	4385	4409
25°	4358	4293	4285
30°	4244	4219	4176
35°	4153	4089	4080
40°	4044	3976	3928
45°	3930	3878	3804
50°	3817	3759	3701
55°	3695	3631	3579
60°	3557	3497	3425
65°	3402	3331	3261
70°	3163	3120	3033
75°	2863	2776	2692
80°	2348	2348	2218
85°	1528	1612	1612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.8
10°-20°	151.0	8.1
20°-30°	223.1	11.9
30°-40°	260.5	13.9
40°-50°	262.0	14.0
50°-60°	230.9	12.3
60°-70°	172.6	9.2
70°-80°	94.9	5.1
80°-90°	22.2	1.2
90°-100°	10.5	0.6
100°-110°	34.0	1.8
110°-120°	64.0	3.4
120°-130°	80.6	4.3
130°-140°	79.5	4.2
140°-150°	64.6	3.4
150°-160°	41.6	2.2
160°-170°	22.8	1.2
170°-180°	7.2	0.4
0°-30°	427.6	22.8
0°-40°	688.1	36.7
0°-60°	1181.0	63.0
0°-90°	1470.7	78.4
90°-120°	108.5	5.8
90°-150°	333.1	17.8
90°-180°	405.0	21.6
0°-180°	1875.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	567	564	560	563	563	54
15°	537	537	534	536	535	151
25°	489	486	482	485	481	225
35°	421	420	415	414	414	264
45°	344	343	340	337	333	265
55°	262	262	258	254	254	235
65°	178	178	174	172	171	176
75°	92	91	89	88	86	97
85°	16	17	17	17	17	21
90°	0	0	0	0	0	2
95°	10	9	9	10	10	10
105°	28	45	29	29	28	30
115°	46	89	71	54	50	45
125°	59	93	101	94	94	52
135°	67	84	119	119	115	52
145°	72	81	106	126	129	45
155°	73	79	88	100	106	34
165°	74	76	80	84	85	21
175°	74	75	74	76	76	7
180°	74	74	74	74	74	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.4	566.4	566.4	566.4	566.4
2.5°	570.1	566.4	561.8	565.5	567.3
5°	567.3	563.7	560.0	562.7	562.7
7.5°	560.9	560.0	555.4	559.1	557.2
10°	554.5	553.6	550.8	553.6	550.8
12.5°	546.2	545.3	543.5	547.1	543.5
15°	537.0	537.0	534.3	536.1	535.2
17.5°	526.9	526.9	523.3	525.1	526.0
20°	515.9	514.1	510.4	512.2	513.2
22.5°	503.1	501.2	496.6	498.5	495.7
25°	489.3	486.5	481.9	484.7	481.0
27.5°	474.6	470.0	468.2	469.1	465.4
30°	455.3	454.4	452.6	450.7	448.0
32.5°	438.8	437.9	433.3	431.5	431.5
35°	421.4	420.4	414.9	414.0	414.0
37.5°	404.8	402.1	395.7	394.7	393.8
40°	383.7	382.8	377.3	375.5	372.7
42.5°	363.5	362.6	358.9	356.2	352.5
45°	344.2	343.3	339.7	336.9	333.2
47.5°	324.1	325.0	320.4	315.8	314.0
50°	303.9	304.8	299.3	295.6	294.7
52.5°	282.7	283.7	278.2	274.5	274.5
55°	262.5	262.5	258.0	254.3	254.3
57.5°	241.4	241.4	236.8	234.1	233.2
60°	220.3	219.4	216.6	213.9	212.1
62.5°	199.2	199.2	195.5	192.8	190.9
65°	178.1	178.1	174.4	171.7	170.7
67.5°	156.1	157.0	153.3	150.6	149.6
70°	134.0	134.0	132.2	128.5	128.5
72.5°	113.8	112.0	111.1	108.3	108.3
75°	91.8	90.9	89.0	88.1	86.3
77.5°	70.7	70.7	68.8	67.9	67.0
80°	50.5	52.3	50.5	49.6	47.7
82.5°	32.1	34.0	33.0	31.2	31.2
85°	16.5	17.4	17.4	17.4	17.4
87.5°	5.5	6.4	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	5.5	7.3	7.3	7.3
95°	10.1	9.2	9.2	10.1	10.1
97.5°	14.7	14.7	11.9	11.9	11.9
100°	19.3	23.9	18.4	14.7	14.7
102.5°	23.9	34.0	23.9	20.2	18.4
105°	28.5	45.0	29.4	29.4	27.5
107.5°	33.0	54.2	37.6	30.3	31.2
110°	37.6	67.0	46.8	37.6	35.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.2	79.9	58.8	45.0	42.2
115°	45.9	89.0	70.7	54.2	49.6
117.5°	49.6	93.6	78.9	66.1	59.7
120°	53.2	95.5	85.4	77.1	71.6
122.5°	56.0	95.5	90.9	88.1	82.6
125°	58.8	92.7	101.0	93.6	93.6
127.5°	60.6	90.0	109.2	99.1	98.2
130°	63.3	87.2	115.7	101.9	102.8
132.5°	65.2	84.5	119.3	111.1	106.5
135°	67.0	83.5	119.3	119.3	114.7
137.5°	68.8	82.6	118.4	125.8	123.0
140°	70.7	82.6	115.7	128.5	129.4
142.5°	71.6	81.7	111.1	128.5	131.3
145°	71.6	80.8	105.6	125.8	129.4
147.5°	72.5	79.9	99.1	121.2	126.7
150°	72.5	79.9	94.6	115.7	122.1
152.5°	72.5	78.9	90.9	107.4	114.7
155°	73.4	78.9	88.1	100.1	106.5
157.5°	73.4	78.0	85.4	94.6	99.1
160°	73.4	77.1	83.5	90.0	92.7
162.5°	74.4	76.2	81.7	86.3	88.1
165°	74.4	76.2	79.9	83.5	85.4
167.5°	74.4	75.3	78.9	81.7	82.6
170°	74.4	75.3	77.1	78.9	79.9
172.5°	74.4	75.3	75.3	77.1	78.0
175°	74.4	75.3	74.4	76.2	76.2
177.5°	74.4	74.4	74.4	74.4	74.4
180°	74.4	74.4	74.4	74.4	74.4

(END OF REPORT)