

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: P253404

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253404
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-20L83050-1D-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: 1931.7 lumens
Efficiency: N/A
Efficacy: 113.6 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

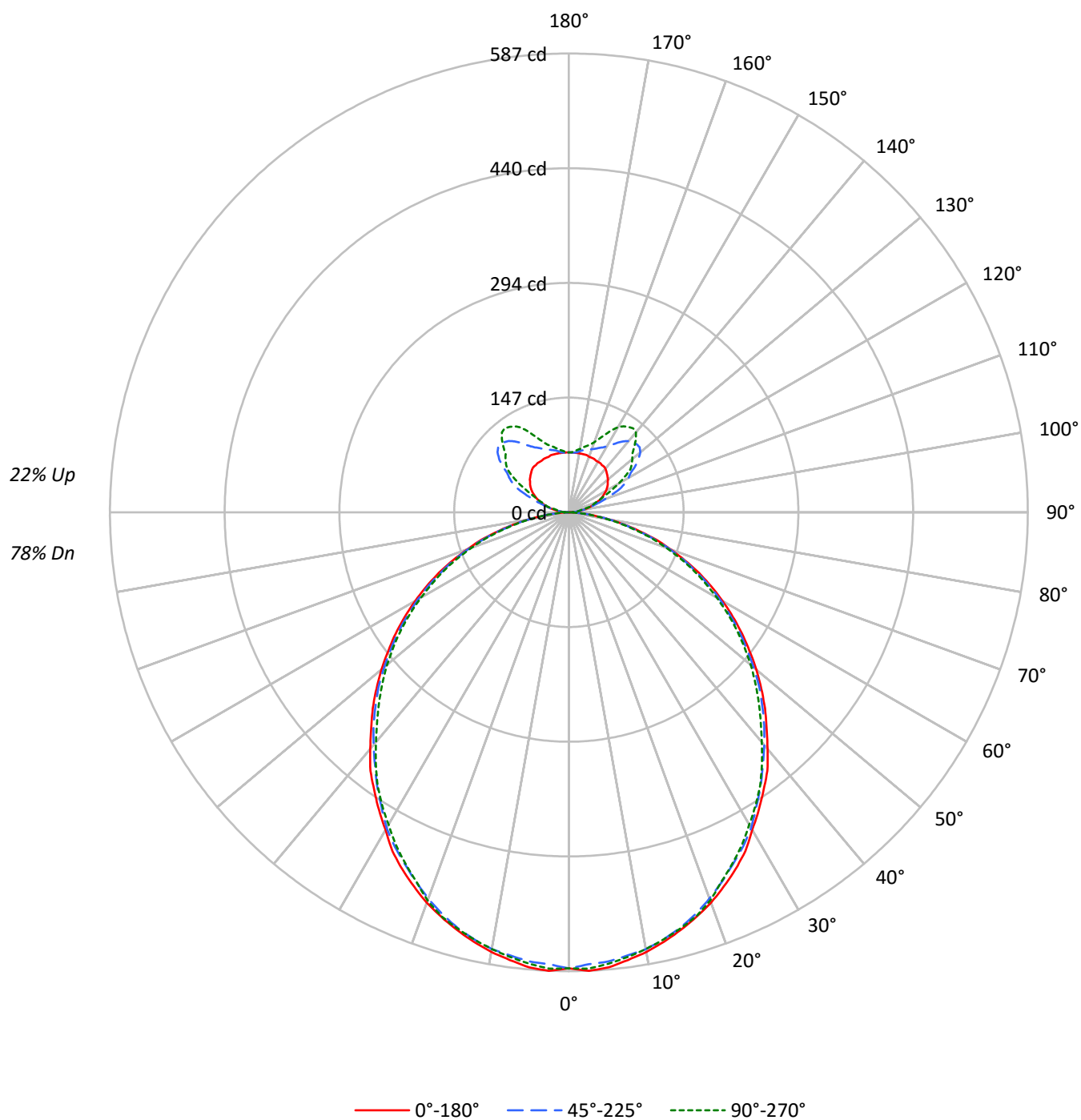
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4710	4710	4710
5°	4735	4674	4697
10°	4682	4650	4650
15°	4623	4599	4607
20°	4565	4516	4540
25°	4489	4422	4413
30°	4372	4345	4301
35°	4277	4212	4202
40°	4165	4095	4046
45°	4048	3994	3918
50°	3931	3871	3812
55°	3806	3740	3686
60°	3664	3602	3526
65°	3503	3431	3360
70°	3257	3215	3125
75°	2948	2860	2773
80°	2417	2417	2287
85°	1575	1667	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	2.8
10°-20°	155.5	8.1
20°-30°	229.8	11.9
30°-40°	268.3	13.9
40°-50°	269.9	14.0
50°-60°	237.8	12.3
60°-70°	177.8	9.2
70°-80°	97.7	5.1
80°-90°	22.9	1.2
90°-100°	10.8	0.6
100°-110°	35.0	1.8
110°-120°	65.9	3.4
120°-130°	83.0	4.3
130°-140°	81.8	4.2
140°-150°	66.5	3.4
150°-160°	42.9	2.2
160°-170°	23.5	1.2
170°-180°	7.5	0.4
0°-30°	440.4	22.8
0°-40°	708.7	36.7
0°-60°	1216.4	63.0
0°-90°	1514.9	78.4
90°-120°	111.8	5.8
90°-150°	343.1	17.8
90°-180°	417.0	21.6
0°-180°	1931.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	584	580	577	580	580	55
15°	553	553	550	552	551	156
25°	504	501	496	499	495	232
35°	434	433	427	426	426	272
45°	355	354	350	347	343	273
55°	270	270	266	262	262	242
65°	183	183	180	177	176	181
75°	94	94	92	91	89	100
85°	17	18	18	18	18	21
90°	0	0	0	0	0	2
95°	10	10	10	10	10	10
105°	29	46	30	30	28	31
115°	47	92	73	56	51	47
125°	60	96	104	96	96	54
135°	69	86	123	123	118	53
145°	74	83	109	130	133	46
155°	76	81	91	103	110	35
165°	77	78	82	86	88	22
175°	77	78	77	78	78	7
180°	77	77	77	77	77	



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CATALOG NUMBER: J2-WL-20L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.4	583.4	583.4	583.4	583.4
2.5°	587.2	583.4	578.6	582.4	584.3
5°	584.3	580.5	576.8	579.6	579.6
7.5°	577.7	576.8	572.0	575.8	573.9
10°	571.1	570.1	567.3	570.1	567.3
12.5°	562.6	561.6	559.7	563.5	559.7
15°	553.1	553.1	550.3	552.2	551.2
17.5°	542.7	542.7	538.9	540.8	541.8
20°	531.4	529.5	525.7	527.6	528.5
22.5°	518.1	516.2	511.5	513.4	510.6
25°	504.0	501.1	496.4	499.2	495.4
27.5°	488.8	484.1	482.2	483.2	479.4
30°	469.0	468.0	466.1	464.2	461.4
32.5°	451.9	451.0	446.3	444.4	444.4
35°	434.0	433.0	427.4	426.4	426.4
37.5°	417.0	414.1	407.5	406.6	405.6
40°	395.2	394.3	388.6	386.7	383.9
42.5°	374.4	373.5	369.7	366.9	363.1
45°	354.6	353.6	349.8	347.0	343.2
47.5°	333.8	334.7	330.0	325.3	323.4
50°	313.0	313.9	308.2	304.5	303.5
52.5°	291.2	292.2	286.5	282.7	282.7
55°	270.4	270.4	265.7	261.9	261.9
57.5°	248.7	248.7	243.9	241.1	240.2
60°	226.9	226.0	223.1	220.3	218.4
62.5°	205.2	205.2	201.4	198.6	196.7
65°	183.4	183.4	179.6	176.8	175.9
67.5°	160.7	161.7	157.9	155.1	154.1
70°	138.0	138.0	136.2	132.4	132.4
72.5°	117.2	115.4	114.4	111.6	111.6
75°	94.5	93.6	91.7	90.8	88.9
77.5°	72.8	72.8	70.9	70.0	69.0
80°	52.0	53.9	52.0	51.1	49.2
82.5°	33.1	35.0	34.0	32.1	32.1
85°	17.0	18.0	18.0	18.0	18.0
87.5°	5.7	6.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	5.7	7.6	7.6	7.6
95°	10.4	9.5	9.5	10.4	10.4
97.5°	15.1	15.1	12.3	12.3	12.3
100°	19.9	24.6	18.9	15.1	15.1
102.5°	24.6	35.0	24.6	20.8	18.9
105°	29.3	46.3	30.3	30.3	28.4
107.5°	34.0	55.8	38.8	31.2	32.1
110°	38.8	69.0	48.2	38.8	36.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	43.5	82.3	60.5	46.3	43.5
115°	47.3	91.7	72.8	55.8	51.1
117.5°	51.1	96.4	81.3	68.1	61.5
120°	54.8	98.3	87.9	79.4	73.7
122.5°	57.7	98.3	93.6	90.8	85.1
125°	60.5	95.5	104.0	96.4	96.4
127.5°	62.4	92.7	112.5	102.1	101.2
130°	65.2	89.8	119.1	105.0	105.9
132.5°	67.1	87.0	122.9	114.4	109.7
135°	69.0	86.0	122.9	122.9	118.2
137.5°	70.9	85.1	122.0	129.5	126.7
140°	72.8	85.1	119.1	132.4	133.3
142.5°	73.7	84.1	114.4	132.4	135.2
145°	73.7	83.2	108.7	129.5	133.3
147.5°	74.7	82.3	102.1	124.8	130.5
150°	74.7	82.3	97.4	119.1	125.8
152.5°	74.7	81.3	93.6	110.6	118.2
155°	75.6	81.3	90.8	103.1	109.7
157.5°	75.6	80.4	87.9	97.4	102.1
160°	75.6	79.4	86.0	92.7	95.5
162.5°	76.6	78.5	84.1	88.9	90.8
165°	76.6	78.5	82.3	86.0	87.9
167.5°	76.6	77.5	81.3	84.1	85.1
170°	76.6	77.5	79.4	81.3	82.3
172.5°	76.6	77.5	77.5	79.4	80.4
175°	76.6	77.5	76.6	78.5	78.5
177.5°	76.6	76.6	76.6	76.6	76.6
180°	76.6	76.6	76.6	76.6	76.6

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