

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: P274862

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274862
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 (6500K)
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 6500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

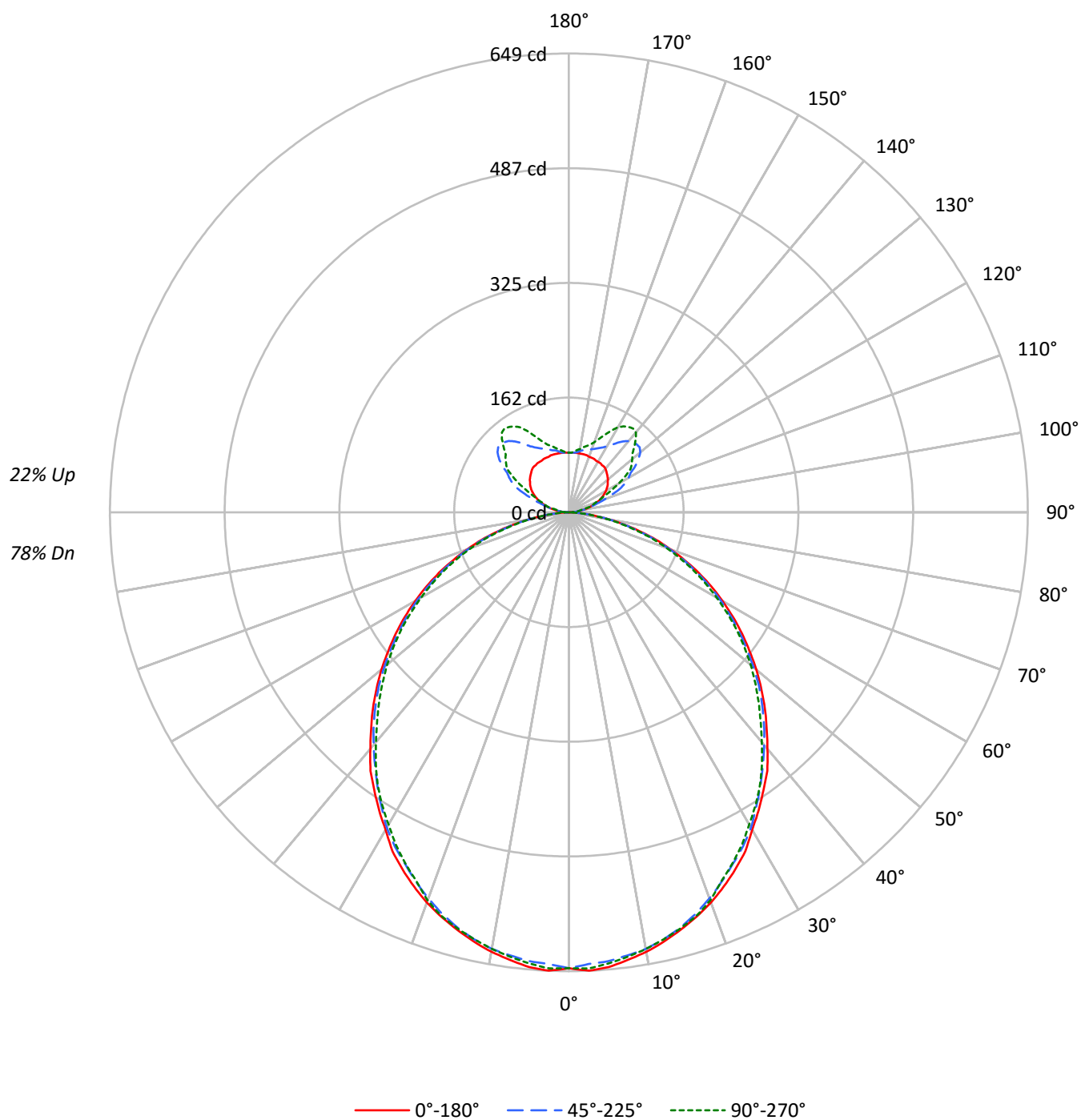
Input Watts (W): 17.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5205	5205	5205
5°	5233	5165	5191
10°	5174	5140	5140
15°	5109	5083	5092
20°	5046	4991	5019
25°	4961	4887	4878
30°	4832	4803	4754
35°	4728	4655	4645
40°	4603	4526	4471
45°	4474	4414	4330
50°	4344	4279	4212
55°	4207	4132	4075
60°	4049	3982	3898
65°	3872	3792	3713
70°	3602	3552	3453
75°	3260	3163	3063
80°	2673	2673	2524
85°	1741	1843	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	2.8
10°-20°	171.9	8.1
20°-30°	254.0	11.9
30°-40°	296.6	13.9
40°-50°	298.3	14.0
50°-60°	262.8	12.3
60°-70°	196.5	9.2
70°-80°	108.0	5.1
80°-90°	25.4	1.2
90°-100°	11.9	0.6
100°-110°	38.7	1.8
110°-120°	72.9	3.4
120°-130°	91.7	4.3
130°-140°	90.4	4.2
140°-150°	73.5	3.4
150°-160°	47.4	2.2
160°-170°	25.9	1.2
170°-180°	8.2	0.4
0°-30°	486.7	22.8
0°-40°	783.3	36.7
0°-60°	1344.4	63.0
0°-90°	1674.3	78.4
90°-120°	123.5	5.8
90°-150°	379.2	17.8
90°-180°	461.0	21.6
0°-180°	2135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	646	642	637	641	641	61
15°	611	611	608	610	609	172
25°	557	554	549	552	548	256
35°	480	479	472	471	471	300
45°	392	391	387	384	379	302
55°	299	299	294	290	290	267
65°	203	203	198	195	194	200
75°	104	104	101	100	98	111
85°	19	20	20	20	20	24
90°	0	0	0	0	0	2
95°	12	10	10	12	12	12
105°	32	51	33	33	31	34
115°	52	101	80	62	56	52
125°	67	106	115	107	107	60
135°	76	95	136	136	131	59
145°	82	92	120	143	147	51
155°	84	90	100	114	121	39
165°	85	87	91	95	97	24
175°	85	86	85	87	87	8
180°	85	85	85	85	85	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.8	644.8	644.8	644.8	644.8
2.5°	648.9	644.8	639.5	643.7	645.8
5°	645.8	641.6	637.4	640.6	640.6
7.5°	638.5	637.4	632.2	636.4	634.3
10°	631.2	630.1	627.0	630.1	627.0
12.5°	621.8	620.7	618.6	622.8	618.6
15°	611.3	611.3	608.2	610.3	609.2
17.5°	599.8	599.8	595.6	597.7	598.8
20°	587.3	585.2	581.0	583.1	584.2
22.5°	572.7	570.6	565.3	567.4	564.3
25°	557.0	553.8	548.6	551.8	547.6
27.5°	540.3	535.0	532.9	534.0	529.8
30°	518.3	517.3	515.2	513.1	510.0
32.5°	499.5	498.5	493.2	491.1	491.1
35°	479.7	478.6	472.3	471.3	471.3
37.5°	460.8	457.7	450.4	449.3	448.3
40°	436.8	435.8	429.5	427.4	424.3
42.5°	413.8	412.8	408.6	405.5	401.3
45°	391.9	390.8	386.6	383.5	379.3
47.5°	368.9	369.9	364.7	359.5	357.4
50°	345.9	346.9	340.7	336.5	335.4
52.5°	321.9	322.9	316.6	312.5	312.5
55°	298.9	298.9	293.6	289.5	289.5
57.5°	274.8	274.8	269.6	266.5	265.4
60°	250.8	249.8	246.6	243.5	241.4
62.5°	226.8	226.8	222.6	219.4	217.4
65°	202.7	202.7	198.5	195.4	194.4
67.5°	177.6	178.7	174.5	171.4	170.3
70°	152.6	152.6	150.5	146.3	146.3
72.5°	129.6	127.5	126.4	123.3	123.3
75°	104.5	103.5	101.4	100.3	98.2
77.5°	80.5	80.5	78.4	77.3	76.3
80°	57.5	59.6	57.5	56.4	54.3
82.5°	36.6	38.7	37.6	35.5	35.5
85°	18.8	19.9	19.9	19.9	19.9
87.5°	6.3	7.3	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	6.3	6.3	8.4	8.4	8.4
95°	11.5	10.4	10.4	11.5	11.5
97.5°	16.7	16.7	13.6	13.6	13.6
100°	21.9	27.2	20.9	16.7	16.7
102.5°	27.2	38.7	27.2	23.0	20.9
105°	32.4	51.2	33.4	33.4	31.3
107.5°	37.6	61.7	42.8	34.5	35.5
110°	42.8	76.3	53.3	42.8	40.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.1	90.9	66.9	51.2	48.1
115°	52.2	101.4	80.5	61.7	56.4
117.5°	56.4	106.6	89.9	75.2	67.9
120°	60.6	108.7	97.2	87.8	81.5
122.5°	63.7	108.7	103.5	100.3	94.0
125°	66.9	105.5	114.9	106.6	106.6
127.5°	69.0	102.4	124.4	112.9	111.8
130°	72.1	99.3	131.7	116.0	117.0
132.5°	74.2	96.1	135.8	126.4	121.2
135°	76.3	95.1	135.8	135.8	130.6
137.5°	78.4	94.0	134.8	143.2	140.0
140°	80.5	94.0	131.7	146.3	147.3
142.5°	81.5	93.0	126.4	146.3	149.4
145°	81.5	92.0	120.2	143.2	147.3
147.5°	82.6	90.9	112.9	137.9	144.2
150°	82.6	90.9	107.6	131.7	139.0
152.5°	82.6	89.9	103.5	122.3	130.6
155°	83.6	89.9	100.3	113.9	121.2
157.5°	83.6	88.8	97.2	107.6	112.9
160°	83.6	87.8	95.1	102.4	105.5
162.5°	84.6	86.7	93.0	98.2	100.3
165°	84.6	86.7	90.9	95.1	97.2
167.5°	84.6	85.7	89.9	93.0	94.0
170°	84.6	85.7	87.8	89.9	90.9
172.5°	84.6	85.7	85.7	87.8	88.8
175°	84.6	85.7	84.6	86.7	86.7
177.5°	84.6	84.6	84.6	84.6	84.6
180°	84.6	84.6	84.6	84.6	84.6

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