

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: P274919

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L82765-1D-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: 3634.5 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

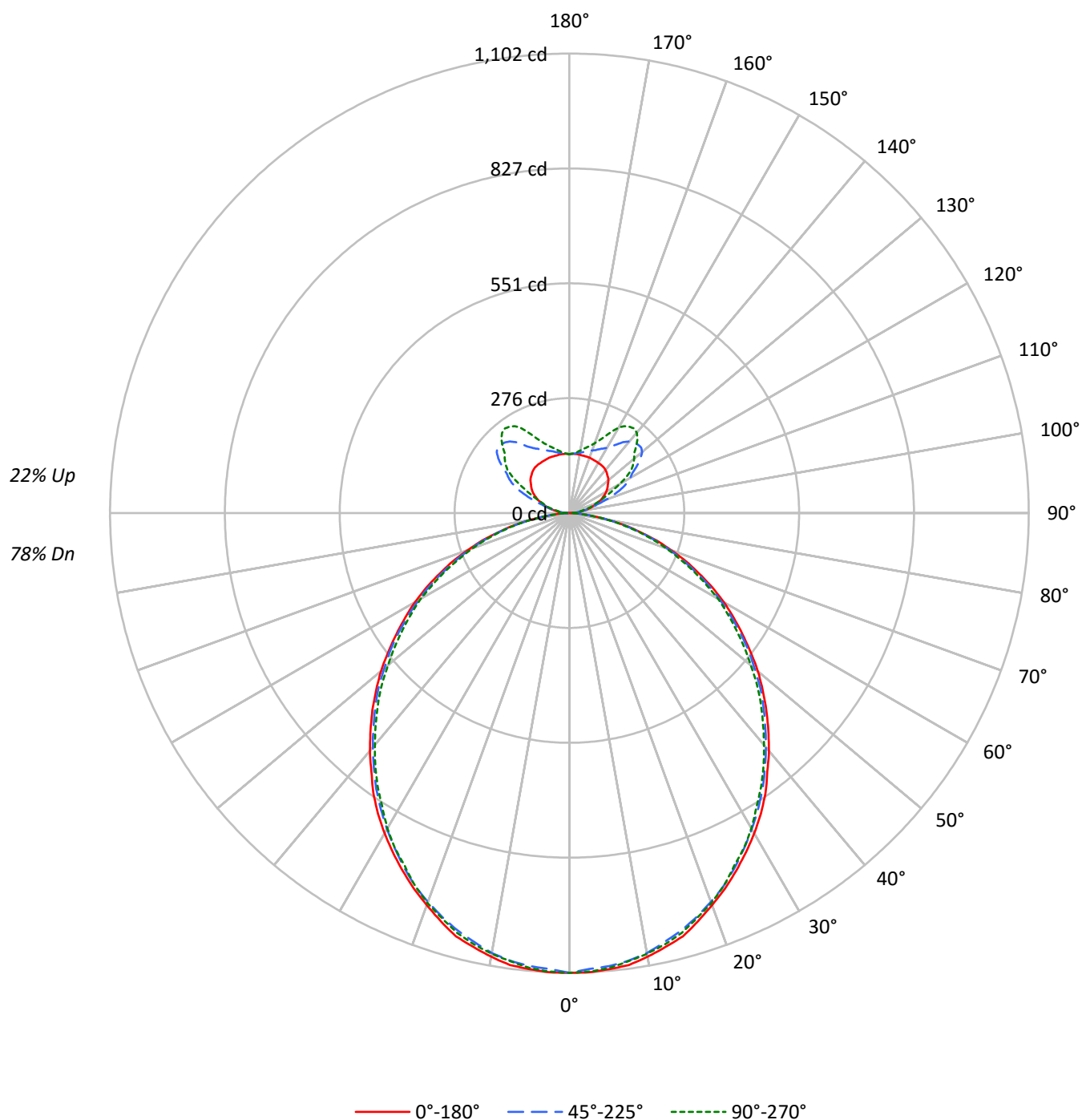
Input Watts (W): 36.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	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
1	104	100	96	92	99	95	92	89	87	84	82	80	78	76	73	71	70
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8900	8900	8900
5°	8897	8838	8875
10°	8857	8782	8797
15°	8785	8662	8708
20°	8596	8526	8549
25°	8431	8357	8324
30°	8267	8156	8138
35°	8079	7961	7898
40°	7846	7730	7652
45°	7630	7515	7420
50°	7414	7276	7136
55°	7132	7042	6874
60°	6907	6744	6655
65°	6558	6384	6243
70°	6111	5958	5828
75°	5440	5356	5296
80°	4351	4398	4268
85°	2807	2890	2973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	2.9
10°-20°	293.7	8.1
20°-30°	433.3	11.9
30°-40°	506.0	13.9
40°-50°	508.1	14.0
50°-60°	447.3	12.3
60°-70°	332.6	9.2
70°-80°	182.3	5.0
80°-90°	41.5	1.1
90°-100°	20.9	0.6
100°-110°	66.2	1.8
110°-120°	124.9	3.4
120°-130°	157.1	4.3
130°-140°	154.7	4.3
140°-150°	124.7	3.4
150°-160°	79.8	2.2
160°-170°	43.6	1.2
170°-180°	13.8	0.4
0°-30°	830.9	22.9
0°-40°	1336.9	36.8
0°-60°	2292.3	63.1
0°-90°	2848.7	78.4
90°-120°	212.1	5.8
90°-150°	648.5	17.8
90°-180°	786.0	21.6
0°-180°	3634.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1098	1095	1091	1095	1095	104
15°	1051	1045	1036	1046	1042	295
25°	946	945	938	937	934	436
35°	820	815	808	805	801	512
45°	668	666	658	651	650	515
55°	507	509	500	493	488	454
65°	343	343	334	330	327	340
75°	174	174	172	169	170	186
85°	30	31	31	33	32	39
90°	1	3	4	5	4	3
95°	19	18	18	20	20	19
105°	55	88	57	57	51	58
115°	88	175	138	106	97	87
125°	112	180	198	184	182	100
135°	128	161	232	235	227	100
145°	138	155	202	243	252	86
155°	140	151	169	193	203	65
165°	141	146	153	161	163	40
175°	142	142	143	144	144	14
180°	141	141	141	141	141	



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CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1102.5	1100.7	1094.3	1099.8	1100.7
5°	1097.9	1095.2	1090.6	1095.2	1095.2
7.5°	1093.3	1088.7	1083.2	1086.0	1084.2
10°	1080.5	1078.6	1071.3	1075.0	1073.1
12.5°	1065.8	1063.0	1053.9	1061.2	1059.4
15°	1051.1	1044.7	1036.4	1045.6	1041.9
17.5°	1026.3	1024.5	1015.3	1023.6	1018.1
20°	1000.6	999.7	992.4	996.0	995.1
22.5°	974.9	972.2	967.6	968.5	967.6
25°	946.5	944.6	938.2	937.3	934.5
27.5°	917.1	916.2	907.0	907.0	906.1
30°	886.8	884.0	874.9	874.9	873.0
32.5°	854.7	850.1	841.8	840.0	835.4
35°	819.8	815.2	807.8	805.1	801.4
37.5°	780.3	779.4	770.2	767.4	764.7
40°	744.5	741.7	733.5	730.7	726.1
42.5°	705.9	705.9	695.8	689.4	687.6
45°	668.3	666.5	658.2	650.9	649.9
47.5°	628.8	627.9	621.5	610.5	610.5
50°	590.3	588.4	579.3	571.9	568.2
52.5°	548.0	550.8	541.6	533.4	528.8
55°	506.7	508.6	500.3	493.0	488.4
57.5°	467.3	468.2	459.0	453.5	449.8
60°	427.8	426.9	417.7	413.1	412.2
62.5°	386.5	384.6	377.3	372.7	368.1
65°	343.3	343.3	334.2	330.5	326.8
67.5°	302.9	300.2	293.8	290.1	285.5
70°	258.9	258.0	252.4	249.7	246.9
72.5°	219.4	216.6	213.9	210.2	207.5
75°	174.4	174.4	171.7	168.9	169.8
77.5°	135.9	134.9	132.2	130.4	130.4
80°	93.6	95.5	94.6	93.6	91.8
82.5°	60.6	61.5	58.8	58.8	59.7
85°	30.3	31.2	31.2	33.0	32.1
87.5°	10.1	11.0	12.9	13.8	13.8
90°	0.9	2.8	3.7	4.6	3.7
92.5°	10.1	11.0	13.8	13.8	13.8
95°	19.3	18.4	18.4	20.2	20.2
97.5°	28.5	29.4	22.9	23.9	23.9
100°	37.6	45.9	34.9	28.5	28.5
102.5°	46.8	67.0	45.9	40.4	36.7
105°	55.1	88.1	56.9	56.9	51.4
107.5°	63.3	107.4	71.6	59.7	59.7
110°	71.6	133.1	92.7	71.6	67.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.8	157.9	115.7	86.3	80.8
115°	88.1	175.3	137.7	105.6	97.3
117.5°	95.5	182.7	155.1	127.6	116.6
120°	101.9	185.4	168.0	150.6	139.5
122.5°	107.4	184.5	179.0	171.7	162.5
125°	112.0	179.9	198.3	183.6	181.8
127.5°	116.6	173.5	214.8	193.7	192.8
130°	122.1	167.1	227.7	201.0	202.9
132.5°	125.8	162.5	233.2	218.5	210.2
135°	128.5	160.6	232.3	235.0	226.7
137.5°	132.2	158.8	229.5	245.1	241.4
140°	134.9	158.8	224.0	249.7	251.5
142.5°	136.8	157.0	214.8	248.8	255.2
145°	137.7	155.1	202.0	243.3	252.4
147.5°	138.6	154.2	190.0	235.0	246.9
150°	138.6	152.4	180.8	222.2	236.8
152.5°	139.5	151.5	174.4	206.5	220.3
155°	139.5	150.6	168.9	192.8	202.9
157.5°	140.5	148.7	163.4	181.8	189.1
160°	141.4	147.8	159.7	172.6	178.1
162.5°	141.4	146.9	156.1	166.2	169.8
165°	141.4	146.0	153.3	160.6	163.4
167.5°	141.4	145.0	149.6	156.1	157.9
170°	142.3	144.1	146.9	151.5	152.4
172.5°	142.3	143.2	145.0	147.8	147.8
175°	142.3	142.3	143.2	144.1	144.1
177.5°	142.3	142.3	142.3	142.3	142.3
180°	141.4	141.4	141.4	141.4	141.4

(END OF REPORT)