

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: P274921

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274921
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 (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: 3868.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

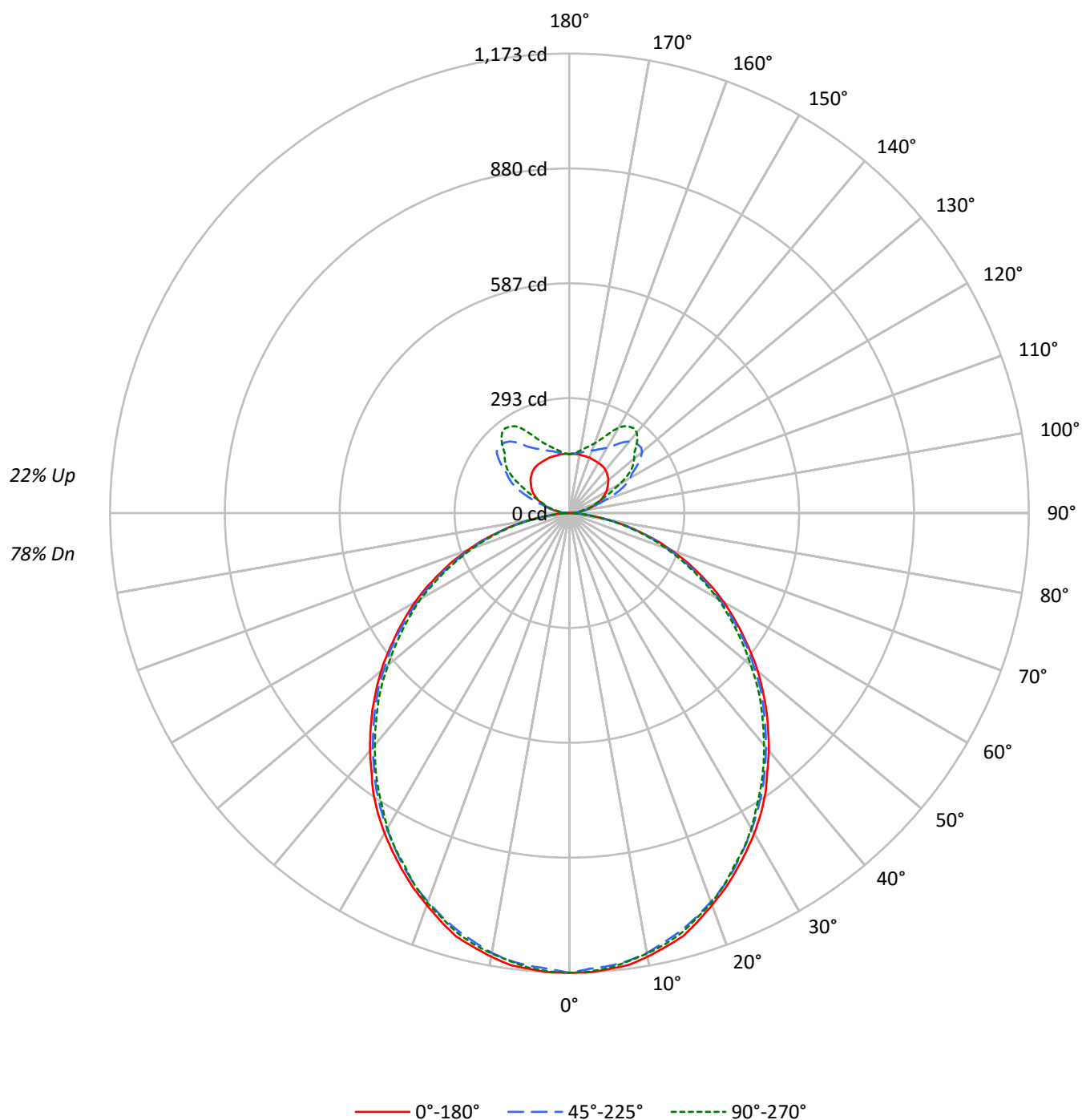
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9473	9473	9473
5°	9469	9406	9446
10°	9426	9347	9362
15°	9350	9219	9268
20°	9149	9073	9099
25°	8973	8894	8859
30°	8798	8680	8661
35°	8599	8474	8406
40°	8350	8226	8144
45°	8121	7998	7897
50°	7890	7743	7596
55°	7591	7495	7316
60°	7351	7177	7083
65°	6980	6793	6644
70°	6503	6342	6203
75°	5789	5699	5636
80°	4635	4677	4542
85°	2983	3075	3168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	2.9
10°-20°	312.6	8.1
20°-30°	461.1	11.9
30°-40°	538.5	13.9
40°-50°	540.8	14.0
50°-60°	476.0	12.3
60°-70°	354.0	9.2
70°-80°	194.0	5.0
80°-90°	44.2	1.1
90°-100°	22.3	0.6
100°-110°	70.5	1.8
110°-120°	132.9	3.4
120°-130°	167.2	4.3
130°-140°	164.6	4.3
140°-150°	132.7	3.4
150°-160°	84.9	2.2
160°-170°	46.4	1.2
170°-180°	14.7	0.4
0°-30°	884.3	22.9
0°-40°	1422.8	36.8
0°-60°	2439.6	63.1
0°-90°	3031.8	78.4
90°-120°	225.7	5.8
90°-150°	690.2	17.8
90°-180°	836.0	21.6
0°-180°	3868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1168	1166	1161	1166	1166	111
15°	1119	1112	1103	1113	1109	314
25°	1007	1005	998	998	995	464
35°	872	868	860	857	853	545
45°	711	709	700	693	692	549
55°	539	541	532	525	520	483
65°	365	365	356	352	348	362
75°	186	186	183	180	181	198
85°	32	33	33	35	34	41
90°	1	3	4	5	4	3
95°	20	20	20	22	22	21
105°	59	94	61	61	55	62
115°	94	187	147	112	104	93
125°	119	192	211	195	193	107
135°	137	171	247	250	241	106
145°	147	165	215	259	269	92
155°	148	160	180	205	216	69
165°	150	155	163	171	174	43
175°	151	151	152	153	153	14
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.4	1173.4	1173.4	1173.4	1173.4
2.5°	1173.4	1171.4	1164.6	1170.4	1171.4
5°	1168.5	1165.6	1160.7	1165.6	1165.6
7.5°	1163.6	1158.7	1152.9	1155.8	1153.8
10°	1149.9	1148.0	1140.2	1144.1	1142.1
12.5°	1134.3	1131.4	1121.6	1129.4	1127.5
15°	1118.7	1111.8	1103.0	1112.8	1108.9
17.5°	1092.3	1090.3	1080.6	1089.4	1083.5
20°	1064.9	1064.0	1056.1	1060.0	1059.1
22.5°	1037.6	1034.6	1029.8	1030.7	1029.8
25°	1007.3	1005.3	998.5	997.5	994.6
27.5°	976.0	975.0	965.3	965.3	964.3
30°	943.8	940.9	931.1	931.1	929.1
32.5°	909.6	904.7	895.9	894.0	889.1
35°	872.5	867.6	859.8	856.8	852.9
37.5°	830.5	829.5	819.7	816.8	813.8
40°	792.3	789.4	780.6	777.7	772.8
42.5°	751.3	751.3	740.6	733.7	731.8
45°	711.3	709.3	700.5	692.7	691.7
47.5°	669.2	668.3	661.4	649.7	649.7
50°	628.2	626.3	616.5	608.7	604.8
52.5°	583.3	586.2	576.4	567.6	562.8
55°	539.3	541.3	532.5	524.6	519.8
57.5°	497.3	498.3	488.5	482.6	478.7
60°	455.3	454.3	444.5	439.7	438.7
62.5°	411.3	409.4	401.5	396.7	391.8
65°	365.4	365.4	355.6	351.7	347.8
67.5°	322.4	319.5	312.6	308.7	303.8
70°	275.5	274.5	268.7	265.7	262.8
72.5°	233.5	230.6	227.6	223.7	220.8
75°	185.6	185.6	182.7	179.8	180.7
77.5°	144.6	143.6	140.7	138.7	138.7
80°	99.7	101.6	100.6	99.7	97.7
82.5°	64.5	65.5	62.5	62.5	63.5
85°	32.2	33.2	33.2	35.2	34.2
87.5°	10.7	11.7	13.7	14.7	14.7
90°	1.0	2.9	3.9	4.9	3.9
92.5°	10.7	11.7	14.7	14.7	14.7
95°	20.5	19.5	19.5	21.5	21.5
97.5°	30.3	31.3	24.4	25.4	25.4
100°	40.1	48.9	37.1	30.3	30.3
102.5°	49.8	71.3	48.9	43.0	39.1
105°	58.6	93.8	60.6	60.6	54.7
107.5°	67.4	114.3	76.2	63.5	63.5
110°	76.2	141.7	98.7	76.2	72.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.0	168.0	123.1	91.8	86.0
115°	93.8	186.6	146.6	112.4	103.6
117.5°	101.6	194.4	165.1	135.8	124.1
120°	108.4	197.4	178.8	160.2	148.5
122.5°	114.3	196.4	190.5	182.7	172.9
125°	119.2	191.5	211.0	195.4	193.4
127.5°	124.1	184.7	228.6	206.1	205.2
130°	129.9	177.8	242.3	214.0	215.9
132.5°	133.8	172.9	248.2	232.5	223.7
135°	136.8	171.0	247.2	250.1	241.3
137.5°	140.7	169.0	244.3	260.9	257.0
140°	143.6	169.0	238.4	265.7	267.7
142.5°	145.6	167.1	228.6	264.8	271.6
145°	146.6	165.1	214.9	258.9	268.7
147.5°	147.5	164.1	202.2	250.1	262.8
150°	147.5	162.2	192.5	236.4	252.1
152.5°	148.5	161.2	185.6	219.8	234.5
155°	148.5	160.2	179.8	205.2	215.9
157.5°	149.5	158.3	173.9	193.4	201.3
160°	150.5	157.3	170.0	183.7	189.5
162.5°	150.5	156.3	166.1	176.8	180.7
165°	150.5	155.3	163.2	171.0	173.9
167.5°	150.5	154.4	159.3	166.1	168.0
170°	151.4	153.4	156.3	161.2	162.2
172.5°	151.4	152.4	154.4	157.3	157.3
175°	151.4	151.4	152.4	153.4	153.4
177.5°	151.4	151.4	151.4	151.4	151.4
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)