

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: P274924

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274924
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.9 lumens
Efficiency: N/A
Efficacy: 108.7 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

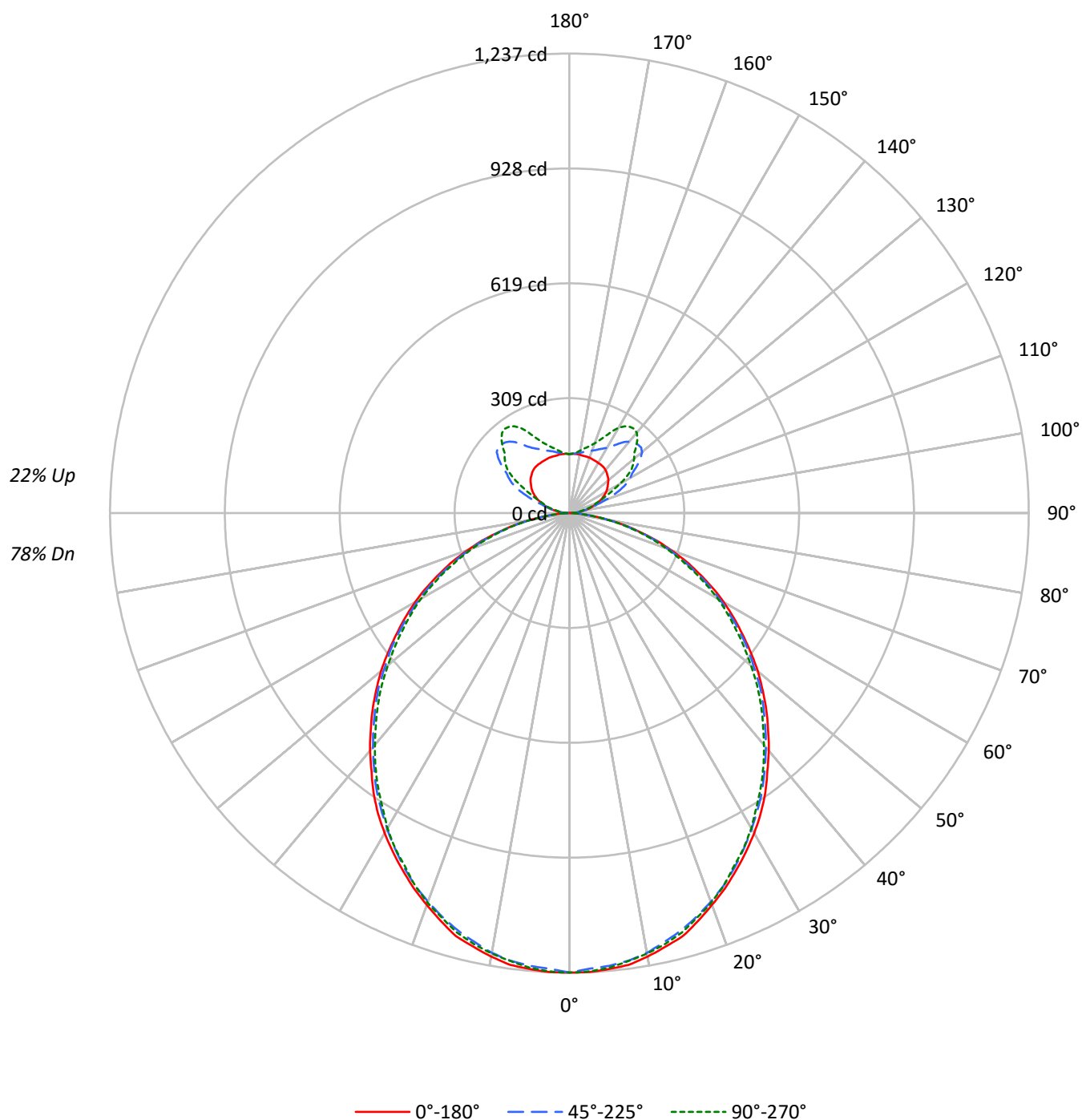
Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274924

CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P274924

CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

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	89	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	47	43	40		
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9986	9986	9986
5°	9983	9916	9958
10°	9938	9853	9871
15°	9857	9719	9771
20°	9645	9565	9592
25°	9459	9377	9340
30°	9275	9150	9131
35°	9065	8933	8862
40°	8803	8673	8586
45°	8560	8431	8325
50°	8318	8162	8008
55°	8003	7902	7713
60°	7750	7568	7467
65°	7358	7161	7005
70°	6857	6687	6541
75°	6104	6007	5945
80°	4886	4933	4788
85°	3149	3242	3344



TEST NUMBER: P274924

CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	2.9
10°-20°	329.6	8.1
20°-30°	486.1	11.9
30°-40°	567.7	13.9
40°-50°	570.1	14.0
50°-60°	501.8	12.3
60°-70°	373.2	9.2
70°-80°	204.6	5.0
80°-90°	46.6	1.1
90°-100°	23.5	0.6
100°-110°	74.3	1.8
110°-120°	140.1	3.4
120°-130°	176.3	4.3
130°-140°	173.6	4.3
140°-150°	139.9	3.4
150°-160°	89.5	2.2
160°-170°	48.9	1.2
170°-180°	15.5	0.4
0°-30°	932.2	22.9
0°-40°	1500.0	36.8
0°-60°	2572.0	63.1
0°-90°	3196.3	78.4
90°-120°	237.9	5.8
90°-150°	727.7	17.8
90°-180°	882.0	21.6
0°-180°	4077.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1232	1229	1224	1229	1229	117
15°	1179	1172	1163	1173	1169	331
25°	1062	1060	1053	1052	1048	489
35°	920	915	906	903	899	574
45°	750	748	738	730	729	578
55°	569	571	561	553	548	510
65°	385	385	375	371	367	382
75°	196	196	193	190	191	209
85°	34	35	35	37	36	44
90°	1	3	4	5	4	3
95°	22	21	21	23	23	22
105°	62	99	64	64	58	65
115°	99	197	154	118	109	98
125°	126	202	222	206	204	113
135°	144	180	261	264	254	112
145°	154	174	227	273	283	97
155°	157	169	190	216	228	73
165°	159	164	172	180	183	45
175°	160	160	161	162	162	15
180°	159	159	159	159	159	



TEST NUMBER: P274924

CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1237.0	1235.0	1227.8	1233.9	1235.0
5°	1231.9	1228.8	1223.6	1228.8	1228.8
7.5°	1226.7	1221.6	1215.4	1218.5	1216.4
10°	1212.3	1210.3	1202.0	1206.1	1204.1
12.5°	1195.8	1192.7	1182.4	1190.7	1188.6
15°	1179.4	1172.1	1162.9	1173.2	1169.1
17.5°	1151.5	1149.5	1139.2	1148.5	1142.3
20°	1122.7	1121.7	1113.4	1117.6	1116.5
22.5°	1093.9	1090.8	1085.6	1086.7	1085.6
25°	1061.9	1059.9	1052.7	1051.6	1048.5
27.5°	1029.0	1027.9	1017.6	1017.6	1016.6
30°	995.0	991.9	981.6	981.6	979.5
32.5°	958.9	953.8	944.5	942.5	937.3
35°	919.8	914.6	906.4	903.3	899.2
37.5°	875.5	874.5	864.2	861.1	858.0
40°	835.3	832.2	823.0	819.9	814.7
42.5°	792.1	792.1	780.7	773.5	771.5
45°	749.8	747.8	738.5	730.3	729.2
47.5°	705.6	704.5	697.3	685.0	685.0
50°	662.3	660.2	649.9	641.7	637.6
52.5°	614.9	618.0	607.7	598.4	593.3
55°	568.6	570.6	561.4	553.1	548.0
57.5°	524.3	525.3	515.0	508.8	504.7
60°	480.0	479.0	468.7	463.5	462.5
62.5°	433.6	431.6	423.3	418.2	413.0
65°	385.2	385.2	374.9	370.8	366.7
67.5°	339.9	336.8	329.6	325.5	320.3
70°	290.5	289.4	283.3	280.2	277.1
72.5°	246.2	243.1	240.0	235.9	232.8
75°	195.7	195.7	192.6	189.5	190.6
77.5°	152.4	151.4	148.3	146.3	146.3
80°	105.1	107.1	106.1	105.1	103.0
82.5°	68.0	69.0	65.9	65.9	67.0
85°	34.0	35.0	35.0	37.1	36.1
87.5°	11.3	12.4	14.4	15.5	15.5
90°	1.0	3.1	4.1	5.2	4.1
92.5°	11.3	12.4	15.5	15.5	15.5
95°	21.6	20.6	20.6	22.7	22.7
97.5°	31.9	33.0	25.8	26.8	26.8
100°	42.2	51.5	39.1	31.9	31.9
102.5°	52.5	75.2	51.5	45.3	41.2
105°	61.8	98.9	63.9	63.9	57.7
107.5°	71.1	120.5	80.3	67.0	67.0
110°	80.3	149.4	104.0	80.3	76.2



TEST NUMBER: P274924

CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.6	177.2	129.8	96.8	90.6
115°	98.9	196.7	154.5	118.5	109.2
117.5°	107.1	205.0	174.1	143.2	130.8
120°	114.3	208.1	188.5	168.9	156.6
122.5°	120.5	207.0	200.9	192.6	182.3
125°	125.7	201.9	222.5	206.0	203.9
127.5°	130.8	194.7	241.0	217.3	216.3
130°	137.0	187.5	255.4	225.6	227.6
132.5°	141.1	182.3	261.6	245.1	235.9
135°	144.2	180.3	260.6	263.7	254.4
137.5°	148.3	178.2	257.5	275.0	270.9
140°	151.4	178.2	251.3	280.2	282.2
142.5°	153.5	176.1	241.0	279.1	286.3
145°	154.5	174.1	226.6	273.0	283.3
147.5°	155.5	173.0	213.2	263.7	277.1
150°	155.5	171.0	202.9	249.3	265.7
152.5°	156.6	170.0	195.7	231.8	247.2
155°	156.6	168.9	189.5	216.3	227.6
157.5°	157.6	166.9	183.3	203.9	212.2
160°	158.6	165.8	179.2	193.6	199.8
162.5°	158.6	164.8	175.1	186.4	190.6
165°	158.6	163.8	172.0	180.3	183.3
167.5°	158.6	162.7	167.9	175.1	177.2
170°	159.7	161.7	164.8	170.0	171.0
172.5°	159.7	160.7	162.7	165.8	165.8
175°	159.7	159.7	160.7	161.7	161.7
177.5°	159.7	159.7	159.7	159.7	159.7
180°	158.6	158.6	158.6	158.6	158.6

(END OF REPORT)