

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: P274969

Luminaire Tested: **J2-WL-50L92765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L92765-1D-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, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4288.0 lumens
Efficiency: N/A
Efficacy: 84.4 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

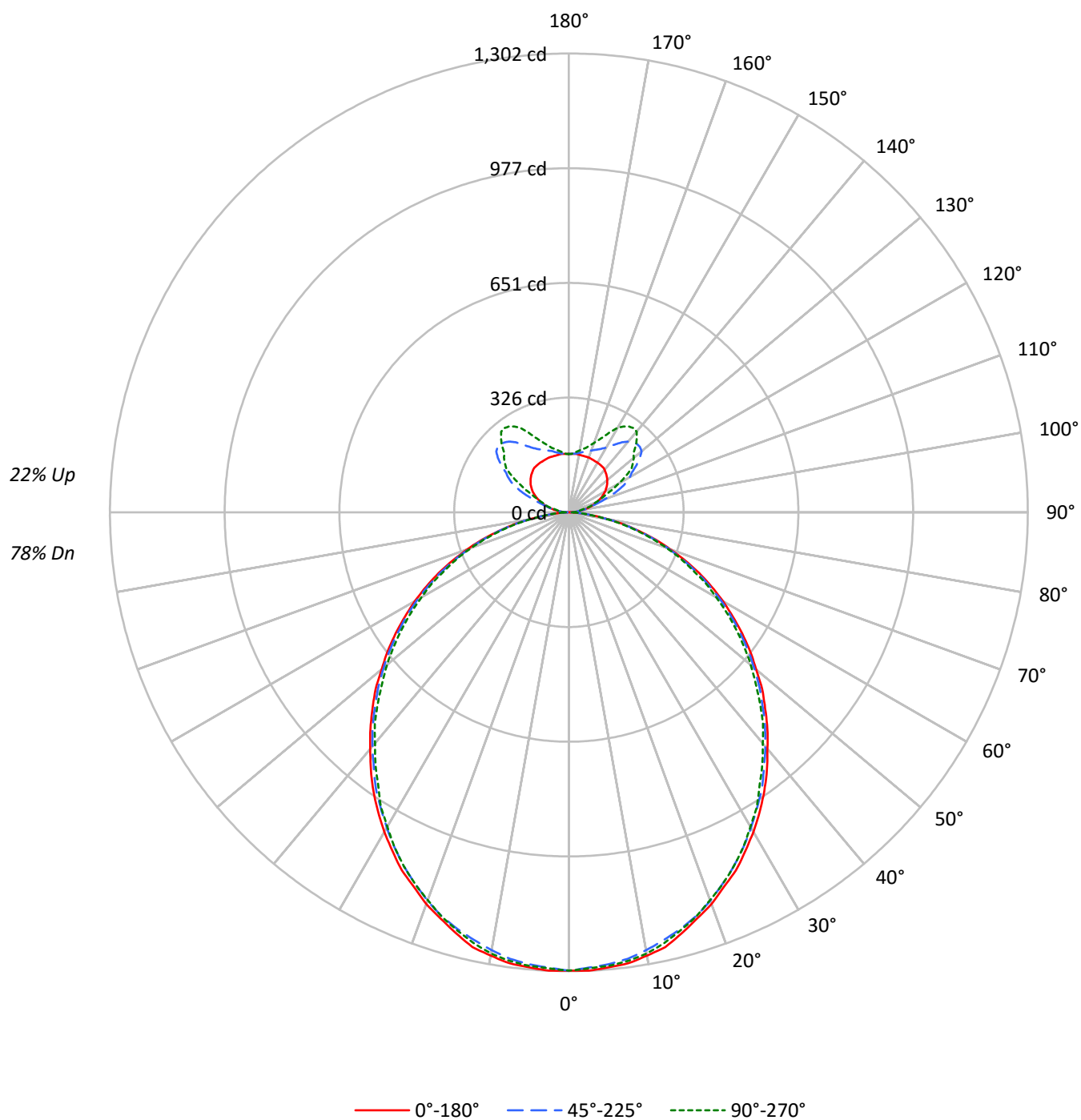
Input Watts (W): 50.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274969

CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P274969

CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (3500K)

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	68	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°	10497	10497	10497
5°	10503	10433	10468
10°	10470	10343	10421
15°	10338	10231	10259
20°	10163	10075	10060
25°	9989	9867	9867
30°	9759	9631	9600
35°	9524	9415	9296
40°	9237	9138	9021
45°	8991	8873	8746
50°	8709	8612	8461
55°	8446	8313	8145
60°	8154	8016	7795
65°	7784	7620	7375
70°	7213	7050	6930
75°	6435	6354	6167
80°	5253	5212	4974
85°	3168	3409	3492



TEST NUMBER: P274969

CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	2.9
10°-20°	346.6	8.1
20°-30°	511.7	11.9
30°-40°	597.4	13.9
40°-50°	600.2	14.0
50°-60°	528.4	12.3
60°-70°	393.3	9.2
70°-80°	215.4	5.0
80°-90°	49.1	1.1
90°-100°	24.6	0.6
100°-110°	77.7	1.8
110°-120°	146.9	3.4
120°-130°	185.2	4.3
130°-140°	182.0	4.2
140°-150°	146.2	3.4
150°-160°	93.3	2.2
160°-170°	51.0	1.2
170°-180°	16.1	0.4
0°-30°	980.8	22.9
0°-40°	1578.3	36.8
0°-60°	2706.9	63.1
0°-90°	3364.8	78.5
90°-120°	249.3	5.8
90°-150°	762.8	17.8
90°-180°	923.0	21.5
0°-180°	4288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1296	1295	1287	1293	1292	123
15°	1237	1232	1224	1230	1228	349
25°	1121	1114	1108	1108	1108	515
35°	966	963	955	948	943	604
45°	788	786	777	770	766	608
55°	600	601	591	582	579	536
65°	408	404	399	390	386	402
75°	206	206	204	201	198	220
85°	34	38	37	38	38	45
90°	2	3	4	5	5	4
95°	23	21	21	23	24	23
105°	65	104	66	66	61	68
115°	103	206	163	125	112	101
125°	132	210	234	217	217	117
135°	151	188	274	276	269	116
145°	161	182	237	287	297	101
155°	164	176	197	225	238	76
165°	165	170	180	188	190	47
175°	166	167	167	169	169	16
180°	165	165	165	165	165	



TEST NUMBER: P274969

CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.3	1300.3	1300.3	1300.3	1300.3
2.5°	1302.0	1301.1	1293.4	1299.4	1295.1
5°	1296.0	1295.1	1287.4	1292.6	1291.7
7.5°	1290.8	1284.0	1278.0	1282.3	1284.0
10°	1277.2	1268.6	1261.7	1271.2	1271.2
12.5°	1263.5	1252.3	1242.9	1254.9	1251.5
15°	1236.9	1231.8	1224.1	1230.1	1227.5
17.5°	1208.7	1208.7	1201.0	1204.4	1201.8
20°	1183.0	1181.3	1172.7	1176.1	1171.0
22.5°	1149.6	1149.6	1140.2	1142.8	1141.0
25°	1121.4	1113.7	1107.7	1108.5	1107.7
27.5°	1083.7	1079.4	1071.7	1073.4	1070.9
30°	1046.9	1040.9	1033.2	1035.8	1029.8
32.5°	1007.5	1003.2	993.8	993.0	992.1
35°	966.4	963.0	955.3	947.6	943.3
37.5°	922.8	921.9	909.1	905.6	901.4
40°	876.5	877.4	867.1	861.1	856.0
42.5°	833.7	830.3	823.5	815.8	814.9
45°	787.5	785.8	777.2	770.4	766.1
47.5°	743.9	741.3	732.7	725.0	718.2
50°	693.4	695.1	685.7	677.1	673.7
52.5°	648.0	649.7	639.4	630.0	626.6
55°	600.1	600.9	590.6	582.1	578.7
57.5°	551.3	552.1	543.6	535.9	531.6
60°	505.0	502.5	496.5	487.1	482.8
62.5°	455.4	455.4	446.8	439.1	439.1
65°	407.5	404.0	398.9	389.5	386.1
67.5°	357.0	354.4	348.4	341.5	342.4
70°	305.6	303.9	298.7	294.5	293.6
72.5°	258.5	255.1	251.7	247.4	245.7
75°	206.3	206.3	203.7	201.2	197.7
77.5°	160.9	159.2	157.5	154.9	153.2
80°	113.0	113.0	112.1	109.6	107.0
82.5°	71.0	72.8	71.0	70.2	70.2
85°	34.2	38.5	36.8	37.7	37.7
87.5°	11.1	12.8	15.4	16.3	16.3
90°	1.7	3.4	4.3	5.1	5.1
92.5°	12.0	12.8	16.3	16.3	17.1
95°	23.1	21.4	21.4	23.1	24.0
97.5°	33.4	34.2	27.4	27.4	28.2
100°	43.7	53.9	41.9	34.2	33.4
102.5°	53.9	78.8	53.9	47.1	42.8
105°	65.1	103.6	65.9	65.9	60.8
107.5°	74.5	126.7	84.7	69.3	70.2
110°	84.7	156.6	107.9	84.7	79.6



TEST NUMBER: P274969

CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.2	185.8	136.1	101.9	95.0
115°	102.7	206.3	162.6	125.0	112.1
117.5°	110.4	215.7	183.2	150.7	136.1
120°	119.0	219.1	199.4	177.2	162.6
122.5°	125.0	216.6	212.3	202.9	191.7
125°	131.8	209.7	234.5	216.6	216.6
127.5°	137.0	202.0	254.2	230.3	228.6
130°	142.1	195.2	268.8	238.8	240.5
132.5°	146.4	190.9	273.9	258.5	247.4
135°	150.7	188.3	273.9	276.5	268.8
137.5°	154.1	186.6	269.6	289.3	285.0
140°	157.5	184.9	261.9	293.6	298.7
142.5°	160.1	183.2	250.8	292.8	301.3
145°	160.9	181.5	237.1	286.8	297.0
147.5°	161.8	179.8	223.4	276.5	288.5
150°	162.6	178.9	212.3	260.2	276.5
152.5°	162.6	177.2	203.7	240.5	258.5
155°	163.5	175.5	196.9	225.1	238.0
157.5°	164.4	173.8	191.7	212.3	222.6
160°	165.2	172.1	186.6	202.9	209.7
162.5°	165.2	171.2	183.2	194.3	198.6
165°	165.2	170.3	179.8	187.5	190.0
167.5°	165.2	169.5	174.6	181.5	184.0
170°	166.1	168.6	171.2	176.3	178.9
172.5°	166.9	167.8	168.6	172.1	173.8
175°	166.1	166.9	166.9	168.6	168.6
177.5°	166.1	166.1	166.1	166.9	166.1
180°	165.2	165.2	165.2	165.2	165.2

(END OF REPORT)