

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: P274952

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274952
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-50L82765-1D-UNV-W2A-W-4 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4728.8 lumens
Efficiency: N/A
Efficacy: 94.0 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

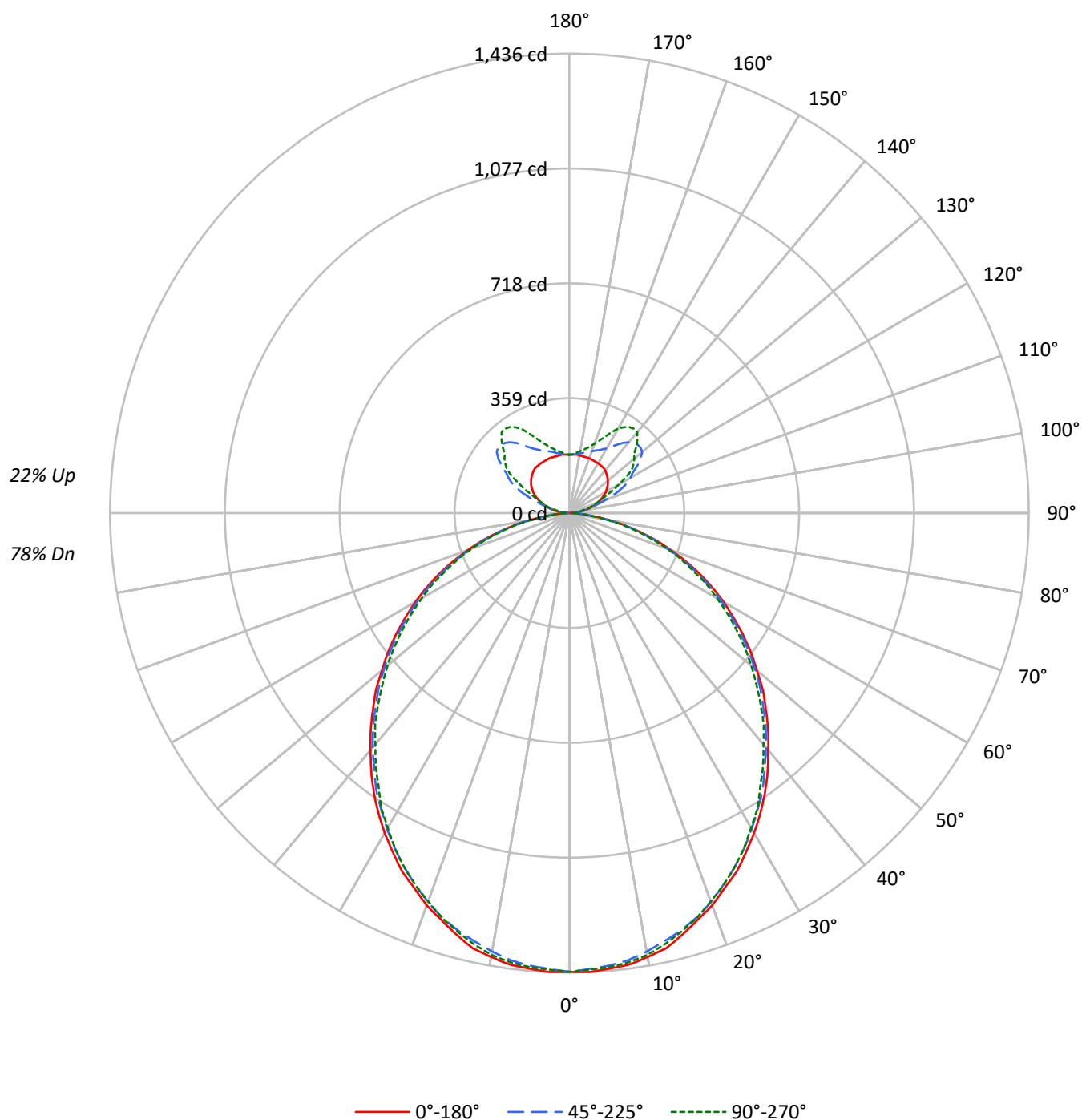
Input Watts (W): 50.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11576	11576	11576
5°	11582	11506	11544
10°	11546	11407	11491
15°	11401	11282	11314
20°	11208	11111	11094
25°	11015	10881	10881
30°	10762	10621	10586
35°	10504	10383	10252
40°	10188	10078	9948
45°	9916	9787	9646
50°	9603	9496	9330
55°	9313	9168	8981
60°	8993	8840	8596
65°	8583	8403	8132
70°	7954	7777	7643
75°	7096	7009	6803
80°	5793	5751	5486
85°	3501	3761	3844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	2.9
10°-20°	382.2	8.1
20°-30°	564.3	11.9
30°-40°	658.9	13.9
40°-50°	662.0	14.0
50°-60°	582.7	12.3
60°-70°	433.8	9.2
70°-80°	237.6	5.0
80°-90°	54.2	1.1
90°-100°	27.2	0.6
100°-110°	85.7	1.8
110°-120°	162.1	3.4
120°-130°	204.3	4.3
130°-140°	200.7	4.2
140°-150°	161.2	3.4
150°-160°	102.9	2.2
160°-170°	56.2	1.2
170°-180°	17.8	0.4
0°-30°	1081.7	22.9
0°-40°	1740.5	36.8
0°-60°	2985.2	63.1
0°-90°	3710.7	78.5
90°-120°	274.9	5.8
90°-150°	841.2	17.8
90°-180°	1018.0	21.5
0°-180°	4728.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1429	1428	1420	1425	1424	136
15°	1364	1358	1350	1356	1354	384
25°	1237	1228	1222	1222	1222	568
35°	1066	1062	1054	1045	1040	666
45°	868	867	857	850	845	670
55°	662	663	651	642	638	591
65°	449	446	440	430	426	443
75°	228	228	225	222	218	243
85°	38	42	41	42	42	50
90°	2	4	5	6	6	4
95°	26	24	24	26	26	25
105°	72	114	73	73	67	75
115°	113	228	179	138	124	112
125°	145	231	259	239	239	129
135°	166	208	302	305	296	128
145°	178	200	262	316	328	111
155°	180	194	217	248	262	83
165°	182	188	198	207	210	52
175°	183	184	184	186	186	18
180°	182	182	182	182	182	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1435.8	1434.9	1426.4	1433.0	1428.3
5°	1429.2	1428.3	1419.8	1425.4	1424.5
7.5°	1423.6	1416.0	1409.4	1414.1	1416.0
10°	1408.5	1399.0	1391.5	1401.8	1401.8
12.5°	1393.3	1381.1	1370.7	1383.9	1380.1
15°	1364.1	1358.4	1349.9	1356.5	1353.7
17.5°	1332.9	1332.9	1324.4	1328.2	1325.4
20°	1304.6	1302.7	1293.3	1297.1	1291.4
22.5°	1267.8	1267.8	1257.4	1260.2	1258.4
25°	1236.6	1228.1	1221.5	1222.5	1221.5
27.5°	1195.1	1190.4	1181.9	1183.8	1180.9
30°	1154.5	1147.9	1139.4	1142.2	1135.6
32.5°	1111.1	1106.4	1096.0	1095.0	1094.1
35°	1065.8	1062.0	1053.5	1045.0	1040.3
37.5°	1017.6	1016.7	1002.5	998.8	994.0
40°	966.7	967.6	956.3	949.7	944.0
42.5°	919.5	915.7	908.1	899.6	898.7
45°	868.5	866.6	857.2	849.6	844.9
47.5°	820.3	817.5	808.1	799.6	792.0
50°	764.6	766.5	756.1	746.7	742.9
52.5°	714.6	716.5	705.2	694.8	691.0
55°	661.7	662.7	651.4	641.9	638.1
57.5°	607.9	608.9	599.4	590.9	586.2
60°	557.0	554.1	547.5	537.1	532.4
62.5°	502.2	502.2	492.8	484.3	484.3
65°	449.3	445.6	439.9	429.5	425.7
67.5°	393.6	390.8	384.2	376.7	377.6
70°	337.0	335.1	329.5	324.7	323.8
72.5°	285.1	281.3	277.5	272.8	270.9
75°	227.5	227.5	224.7	221.8	218.1
77.5°	177.5	175.6	173.7	170.9	169.0
80°	124.6	124.6	123.7	120.8	118.0
82.5°	78.4	80.2	78.4	77.4	77.4
85°	37.8	42.5	40.6	41.5	41.5
87.5°	12.3	14.2	17.0	17.9	17.9
90°	1.9	3.8	4.7	5.7	5.7
92.5°	13.2	14.2	17.9	17.9	18.9
95°	25.5	23.6	23.6	25.5	26.4
97.5°	36.8	37.8	30.2	30.2	31.2
100°	48.1	59.5	46.3	37.8	36.8
102.5°	59.5	86.8	59.5	51.9	47.2
105°	71.7	114.2	72.7	72.7	67.0
107.5°	82.1	139.7	93.5	76.5	77.4
110°	93.5	172.8	118.9	93.5	87.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.8	204.8	150.1	112.3	104.8
115°	113.3	227.5	179.4	137.8	123.7
117.5°	121.8	237.9	202.0	166.1	150.1
120°	131.2	241.7	220.0	195.4	179.4
122.5°	137.8	238.8	234.1	223.7	211.5
125°	145.4	231.3	258.7	238.8	238.8
127.5°	151.0	222.8	280.4	253.9	252.0
130°	156.7	215.2	296.4	263.4	265.3
132.5°	161.4	210.5	302.1	285.1	272.8
135°	166.1	207.7	302.1	304.9	296.4
137.5°	169.9	205.8	297.4	319.1	314.4
140°	173.7	203.9	288.9	323.8	329.5
142.5°	176.5	202.0	276.6	322.8	332.3
145°	177.5	200.1	261.5	316.2	327.6
147.5°	178.4	198.2	246.4	304.9	318.1
150°	179.4	197.3	234.1	287.0	304.9
152.5°	179.4	195.4	224.7	265.3	285.1
155°	180.3	193.5	217.1	248.3	262.4
157.5°	181.2	191.6	211.5	234.1	245.4
160°	182.2	189.7	205.8	223.7	231.3
162.5°	182.2	188.8	202.0	214.3	219.0
165°	182.2	187.9	198.2	206.7	209.6
167.5°	182.2	186.9	192.6	200.1	203.0
170°	183.1	186.0	188.8	194.5	197.3
172.5°	184.1	185.0	186.0	189.7	191.6
175°	183.1	184.1	184.1	186.0	186.0
177.5°	183.1	183.1	183.1	184.1	183.1
180°	182.2	182.2	182.2	182.2	182.2

(END OF REPORT)