

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: P274971

Luminaire Tested: **J2-WL-50L92765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274971
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4538.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

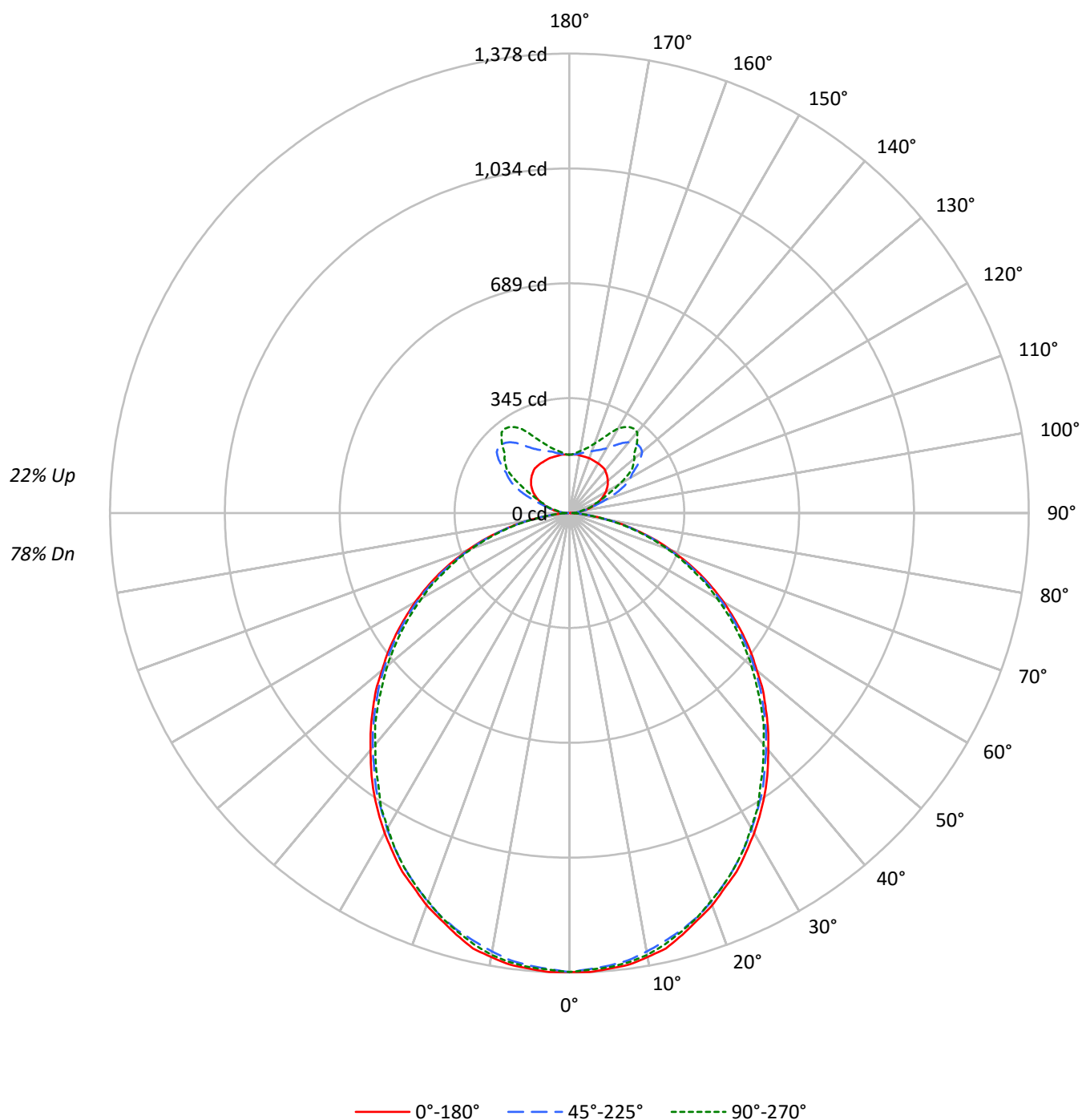
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	11110	11110	11110
5°	11116	11042	11079
10°	11081	10947	11029
15°	10942	10828	10858
20°	10757	10663	10648
25°	10572	10443	10443
30°	10329	10193	10160
35°	10081	9965	9839
40°	9777	9672	9548
45°	9516	9392	9258
50°	9217	9114	8955
55°	8939	8798	8621
60°	8630	8485	8251
65°	8239	8065	7805
70°	7633	7463	7336
75°	6809	6725	6528
80°	5560	5518	5267
85°	3353	3612	3696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	2.9
10°-20°	366.8	8.1
20°-30°	541.5	11.9
30°-40°	632.3	13.9
40°-50°	635.3	14.0
50°-60°	559.3	12.3
60°-70°	416.3	9.2
70°-80°	228.0	5.0
80°-90°	52.0	1.1
90°-100°	26.1	0.6
100°-110°	82.3	1.8
110°-120°	155.5	3.4
120°-130°	196.1	4.3
130°-140°	192.7	4.2
140°-150°	154.8	3.4
150°-160°	98.8	2.2
160°-170°	54.0	1.2
170°-180°	17.1	0.4
0°-30°	1038.1	22.9
0°-40°	1670.5	36.8
0°-60°	2865.1	63.1
0°-90°	3561.3	78.5
90°-120°	263.9	5.8
90°-150°	807.4	17.8
90°-180°	977.0	21.5
0°-180°	4538.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1372	1371	1363	1368	1367	130
15°	1309	1304	1296	1302	1299	369
25°	1187	1179	1172	1173	1172	545
35°	1023	1019	1011	1003	998	639
45°	834	832	823	815	811	643
55°	635	636	625	616	612	568
65°	431	428	422	412	409	426
75°	218	218	216	213	209	233
85°	36	41	39	40	40	48
90°	2	4	4	5	5	4
95°	24	23	23	24	25	24
105°	69	110	70	70	64	72
115°	109	218	172	132	119	107
125°	140	222	248	229	229	124
135°	160	199	290	293	284	123
145°	170	192	251	304	314	107
155°	173	186	208	238	252	80
165°	175	180	190	198	201	50
175°	176	177	177	178	178	17
180°	175	175	175	175	175	



TEST NUMBER: P274971

CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.2	1376.2	1376.2	1376.2	1376.2
2.5°	1378.0	1377.1	1369.0	1375.3	1370.8
5°	1371.7	1370.8	1362.6	1368.1	1367.2
7.5°	1366.2	1359.0	1352.7	1357.2	1359.0
10°	1351.8	1342.7	1335.4	1345.4	1345.4
12.5°	1337.3	1325.5	1315.5	1328.2	1324.6
15°	1309.2	1303.7	1295.6	1301.9	1299.2
17.5°	1279.3	1279.3	1271.1	1274.7	1272.0
20°	1252.1	1250.3	1241.2	1244.8	1239.4
22.5°	1216.8	1216.8	1206.8	1209.5	1207.7
25°	1186.9	1178.7	1172.4	1173.3	1172.4
27.5°	1147.0	1142.5	1134.3	1136.1	1133.4
30°	1108.0	1101.7	1093.5	1096.3	1089.9
32.5°	1066.4	1061.8	1051.9	1051.0	1050.1
35°	1022.9	1019.3	1011.1	1002.9	998.4
37.5°	976.7	975.8	962.2	958.5	954.0
40°	927.7	928.7	917.8	911.4	906.0
42.5°	882.4	878.8	871.6	863.4	862.5
45°	833.5	831.7	822.6	815.4	810.9
47.5°	787.3	784.6	775.5	767.4	760.1
50°	733.9	735.7	725.7	716.6	713.0
52.5°	685.8	687.7	676.8	666.8	663.2
55°	635.1	636.0	625.1	616.1	612.5
57.5°	583.5	584.4	575.3	567.2	562.6
60°	534.5	531.8	525.5	515.5	511.0
62.5°	482.0	482.0	472.9	464.8	464.8
65°	431.3	427.6	422.2	412.2	408.6
67.5°	377.8	375.1	368.7	361.5	362.4
70°	323.4	321.6	316.2	311.7	310.8
72.5°	273.6	270.0	266.4	261.8	260.0
75°	218.3	218.3	215.6	212.9	209.3
77.5°	170.3	168.5	166.7	164.0	162.2
80°	119.6	119.6	118.7	116.0	113.3
82.5°	75.2	77.0	75.2	74.3	74.3
85°	36.2	40.8	39.0	39.9	39.9
87.5°	11.8	13.6	16.3	17.2	17.2
90°	1.8	3.6	4.5	5.4	5.4
92.5°	12.7	13.6	17.2	17.2	18.1
95°	24.5	22.7	22.7	24.5	25.4
97.5°	35.3	36.2	29.0	29.0	29.9
100°	46.2	57.1	44.4	36.2	35.3
102.5°	57.1	83.4	57.1	49.8	45.3
105°	68.9	109.6	69.8	69.8	64.3
107.5°	78.8	134.1	89.7	73.4	74.3
110°	89.7	165.8	114.2	89.7	84.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.7	196.6	144.1	107.8	100.6
115°	108.7	218.3	172.1	132.3	118.7
117.5°	116.9	228.3	193.9	159.5	144.1
120°	125.9	231.9	211.1	187.5	172.1
122.5°	132.3	229.2	224.7	214.7	202.9
125°	139.5	222.0	248.2	229.2	229.2
127.5°	145.0	213.8	269.1	243.7	241.9
130°	150.4	206.6	284.5	252.8	254.6
132.5°	154.9	202.0	289.9	273.6	261.8
135°	159.5	199.3	289.9	292.6	284.5
137.5°	163.1	197.5	285.4	306.2	301.7
140°	166.7	195.7	277.2	310.8	316.2
142.5°	169.4	193.9	265.5	309.9	318.9
145°	170.3	192.1	251.0	303.5	314.4
147.5°	171.2	190.3	236.5	292.6	305.3
150°	172.1	189.4	224.7	275.4	292.6
152.5°	172.1	187.5	215.6	254.6	273.6
155°	173.0	185.7	208.4	238.3	251.9
157.5°	174.0	183.9	202.9	224.7	235.6
160°	174.9	182.1	197.5	214.7	222.0
162.5°	174.9	181.2	193.9	205.7	210.2
165°	174.9	180.3	190.3	198.4	201.1
167.5°	174.9	179.4	184.8	192.1	194.8
170°	175.8	178.5	181.2	186.6	189.4
172.5°	176.7	177.6	178.5	182.1	183.9
175°	175.8	176.7	176.7	178.5	178.5
177.5°	175.8	175.8	175.8	176.7	175.8
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)