

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: P274970

Luminaire Tested: **J2-WL-50L92765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274970
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4423.3 lumens
Efficiency: N/A
Efficacy: 86.2 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

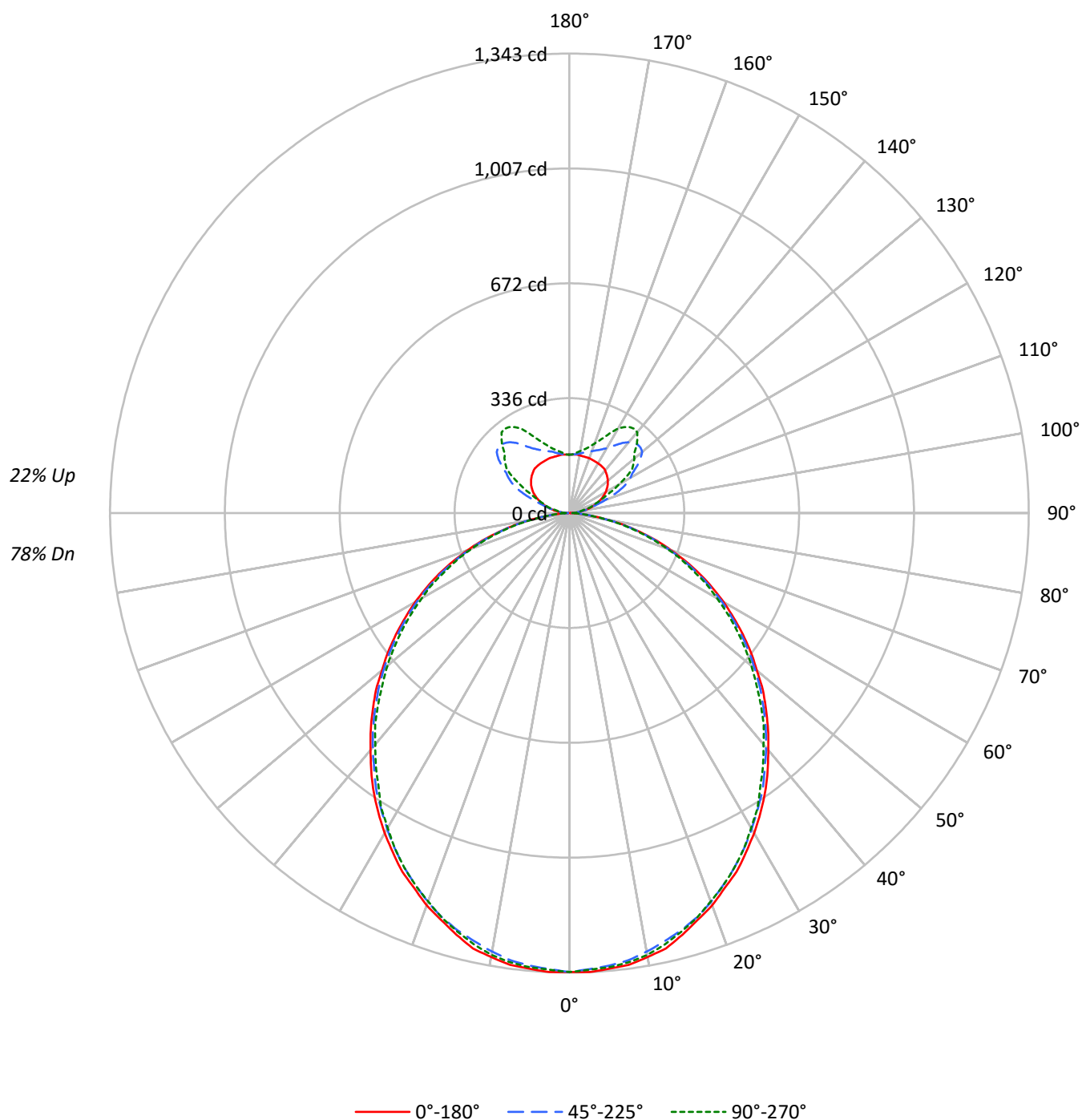
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	10828	10828	10828
5°	10834	10762	10797
10°	10799	10669	10749
15°	10664	10553	10583
20°	10484	10393	10377
25°	10303	10178	10178
30°	10067	9935	9902
35°	9825	9711	9590
40°	9529	9427	9305
45°	9275	9154	9023
50°	8982	8883	8727
55°	8712	8576	8401
60°	8412	8268	8041
65°	8029	7861	7607
70°	7440	7275	7150
75°	6638	6556	6363
80°	5421	5379	5133
85°	3270	3520	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	2.9
10°-20°	357.5	8.1
20°-30°	527.8	11.9
30°-40°	616.3	13.9
40°-50°	619.2	14.0
50°-60°	545.1	12.3
60°-70°	405.7	9.2
70°-80°	222.2	5.0
80°-90°	50.7	1.1
90°-100°	25.4	0.6
100°-110°	80.2	1.8
110°-120°	151.6	3.4
120°-130°	191.1	4.3
130°-140°	187.8	4.2
140°-150°	150.8	3.4
150°-160°	96.3	2.2
160°-170°	52.6	1.2
170°-180°	16.7	0.4
0°-30°	1011.8	22.9
0°-40°	1628.1	36.8
0°-60°	2792.3	63.1
0°-90°	3470.9	78.5
90°-120°	257.2	5.8
90°-150°	786.9	17.8
90°-180°	952.0	21.5
0°-180°	4423.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1337	1336	1328	1333	1332	127
15°	1276	1271	1263	1269	1266	360
25°	1157	1149	1143	1144	1143	532
35°	997	993	985	978	973	623
45°	812	811	802	795	790	627
55°	619	620	609	600	597	553
65°	420	417	412	402	398	415
75°	213	213	210	208	204	227
85°	35	40	38	39	39	47
90°	2	4	4	5	5	4
95°	24	22	22	24	25	24
105°	67	107	68	68	63	70
115°	106	213	168	129	116	105
125°	136	216	242	223	223	121
135°	155	194	283	285	277	120
145°	166	187	245	296	306	104
155°	169	181	203	232	246	78
165°	170	176	185	193	196	48
175°	171	172	172	174	174	16
180°	170	170	170	170	170	



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CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.3	1341.3	1341.3	1341.3	1341.3
2.5°	1343.0	1342.2	1334.2	1340.4	1336.0
5°	1336.9	1336.0	1328.0	1333.3	1332.4
7.5°	1331.6	1324.5	1318.3	1322.7	1324.5
10°	1317.4	1308.6	1301.5	1311.3	1311.3
12.5°	1303.3	1291.8	1282.1	1294.5	1290.9
15°	1275.9	1270.6	1262.7	1268.9	1266.2
17.5°	1246.8	1246.8	1238.8	1242.4	1239.7
20°	1220.3	1218.5	1209.7	1213.2	1207.9
22.5°	1185.9	1185.9	1176.2	1178.8	1177.0
25°	1156.7	1148.8	1142.6	1143.5	1142.6
27.5°	1117.9	1113.5	1105.5	1107.3	1104.6
30°	1079.9	1073.7	1065.8	1068.4	1062.2
32.5°	1039.3	1034.9	1025.2	1024.3	1023.4
35°	996.9	993.4	985.4	977.5	973.1
37.5°	951.9	951.0	937.7	934.2	929.8
40°	904.2	905.1	894.5	888.3	883.0
42.5°	860.0	856.5	849.4	841.5	840.6
45°	812.4	810.6	801.8	794.7	790.3
47.5°	767.3	764.7	755.8	747.9	740.8
50°	715.2	717.0	707.3	698.5	694.9
52.5°	668.4	670.2	659.6	649.9	646.4
55°	619.0	619.9	609.3	600.4	596.9
57.5°	568.7	569.5	560.7	552.8	548.3
60°	521.0	518.3	512.1	502.4	498.0
62.5°	469.8	469.8	460.9	453.0	453.0
65°	420.3	416.8	411.5	401.8	398.2
67.5°	368.2	365.6	359.4	352.3	353.2
70°	315.2	313.5	308.2	303.8	302.9
72.5°	266.7	263.1	259.6	255.2	253.4
75°	212.8	212.8	210.2	207.5	204.0
77.5°	166.0	164.2	162.5	159.8	158.1
80°	116.6	116.6	115.7	113.0	110.4
82.5°	73.3	75.1	73.3	72.4	72.4
85°	35.3	39.7	38.0	38.9	38.9
87.5°	11.5	13.2	15.9	16.8	16.8
90°	1.8	3.5	4.4	5.3	5.3
92.5°	12.4	13.2	16.8	16.8	17.7
95°	23.8	22.1	22.1	23.8	24.7
97.5°	34.4	35.3	28.3	28.3	29.1
100°	45.0	55.6	43.3	35.3	34.4
102.5°	55.6	81.2	55.6	48.6	44.1
105°	67.1	106.8	68.0	68.0	62.7
107.5°	76.8	130.7	87.4	71.5	72.4
110°	87.4	161.6	111.3	87.4	82.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.1	191.6	140.4	105.1	98.0
115°	106.0	212.8	167.8	128.9	115.7
117.5°	113.9	222.5	189.0	155.4	140.4
120°	122.7	226.0	205.7	182.8	167.8
122.5°	128.9	223.4	219.0	209.3	197.8
125°	136.0	216.3	241.9	223.4	223.4
127.5°	141.3	208.4	262.3	237.5	235.8
130°	146.6	201.3	277.3	246.4	248.1
132.5°	151.0	196.9	282.6	266.7	255.2
135°	155.4	194.3	282.6	285.2	277.3
137.5°	158.9	192.5	278.1	298.5	294.0
140°	162.5	190.7	270.2	302.9	308.2
142.5°	165.1	189.0	258.7	302.0	310.8
145°	166.0	187.2	244.6	295.8	306.4
147.5°	166.9	185.4	230.5	285.2	297.6
150°	167.8	184.5	219.0	268.4	285.2
152.5°	167.8	182.8	210.2	248.1	266.7
155°	168.7	181.0	203.1	232.2	245.5
157.5°	169.5	179.2	197.8	219.0	229.6
160°	170.4	177.5	192.5	209.3	216.3
162.5°	170.4	176.6	189.0	200.4	204.9
165°	170.4	175.7	185.4	193.4	196.0
167.5°	170.4	174.8	180.1	187.2	189.8
170°	171.3	174.0	176.6	181.9	184.5
172.5°	172.2	173.1	174.0	177.5	179.2
175°	171.3	172.2	172.2	174.0	174.0
177.5°	171.3	171.3	171.3	172.2	171.3
180°	170.4	170.4	170.4	170.4	170.4

(END OF REPORT)