

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: P274954

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274954
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.3 lumens
Efficiency: N/A
Efficacy: 97.5 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

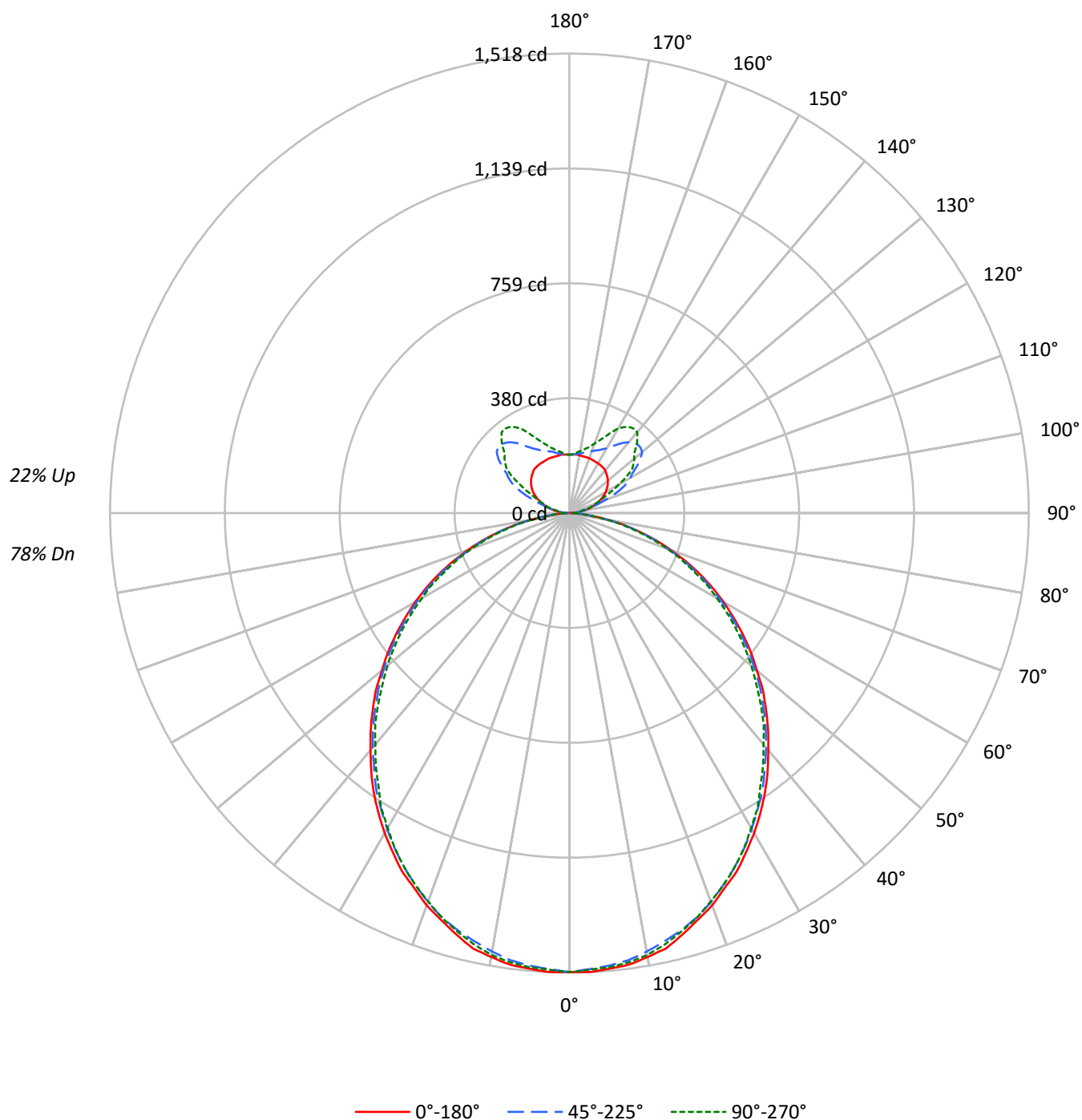
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	12239	12239	12239
5°	12245	12164	12204
10°	12206	12059	12149
15°	12053	11927	11961
20°	11849	11747	11729
25°	11646	11503	11503
30°	11378	11229	11192
35°	11104	10977	10839
40°	10770	10654	10517
45°	10483	10346	10198
50°	10153	10040	9864
55°	9847	9692	9495
60°	9507	9345	9089
65°	9074	8884	8598
70°	8410	8221	8080
75°	7502	7408	7190
80°	6123	6076	5802
85°	3696	3974	4066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	2.9
10°-20°	404.0	8.1
20°-30°	596.5	11.9
30°-40°	696.6	13.9
40°-50°	699.8	14.0
50°-60°	616.1	12.3
60°-70°	458.6	9.2
70°-80°	251.1	5.0
80°-90°	57.2	1.1
90°-100°	28.7	0.6
100°-110°	90.6	1.8
110°-120°	171.3	3.4
120°-130°	216.0	4.3
130°-140°	212.2	4.2
140°-150°	170.5	3.4
150°-160°	108.8	2.2
160°-170°	59.4	1.2
170°-180°	18.8	0.4
0°-30°	1143.5	22.9
0°-40°	1840.1	36.8
0°-60°	3156.0	63.1
0°-90°	3922.9	78.5
90°-120°	290.7	5.8
90°-150°	889.4	17.8
90°-180°	1076.0	21.5
0°-180°	4999.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1511	1510	1501	1507	1506	144
15°	1442	1436	1427	1434	1431	406
25°	1307	1298	1291	1292	1291	601
35°	1127	1123	1114	1105	1100	704
45°	918	916	906	898	893	709
55°	700	701	689	679	675	625
65°	475	471	465	454	450	469
75°	240	240	238	234	230	257
85°	40	45	43	44	44	53
90°	2	4	5	6	6	4
95°	27	25	25	27	28	27
105°	76	121	77	77	71	79
115°	120	240	190	146	131	118
125°	154	244	274	252	252	137
135°	176	220	319	322	313	135
145°	188	212	276	334	346	118
155°	191	205	230	262	277	88
165°	193	199	210	219	222	55
175°	194	195	195	197	197	19
180°	193	193	193	193	193	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1518.0	1517.0	1508.0	1515.0	1510.0
5°	1511.0	1510.0	1501.0	1507.0	1506.0
7.5°	1505.0	1497.0	1490.0	1495.0	1497.0
10°	1489.0	1479.0	1471.1	1482.0	1482.0
12.5°	1473.0	1460.1	1449.1	1463.1	1459.1
15°	1442.1	1436.1	1427.1	1434.1	1431.1
17.5°	1409.2	1409.2	1400.2	1404.2	1401.2
20°	1379.2	1377.2	1367.3	1371.3	1365.3
22.5°	1340.3	1340.3	1329.3	1332.3	1330.3
25°	1307.4	1298.4	1291.4	1292.4	1291.4
27.5°	1263.5	1258.5	1249.5	1251.5	1248.5
30°	1220.6	1213.6	1204.6	1207.6	1200.6
32.5°	1174.6	1169.7	1158.7	1157.7	1156.7
35°	1126.7	1122.8	1113.8	1104.8	1099.8
37.5°	1075.8	1074.8	1059.9	1055.9	1050.9
40°	1022.0	1023.0	1011.0	1004.0	998.0
42.5°	972.1	968.1	960.1	951.1	950.1
45°	918.2	916.2	906.2	898.2	893.2
47.5°	867.3	864.3	854.3	845.3	837.3
50°	808.4	810.4	799.4	789.4	785.4
52.5°	755.5	757.5	745.5	734.5	730.5
55°	699.6	700.6	688.6	678.6	674.6
57.5°	642.7	643.7	633.7	624.7	619.8
60°	588.8	585.8	578.8	567.9	562.9
62.5°	530.9	530.9	521.0	512.0	512.0
65°	475.0	471.1	465.1	454.1	450.1
67.5°	416.2	413.2	406.2	398.2	399.2
70°	356.3	354.3	348.3	343.3	342.3
72.5°	301.4	297.4	293.4	288.4	286.4
75°	240.5	240.5	237.5	234.5	230.5
77.5°	187.6	185.6	183.6	180.6	178.6
80°	131.7	131.7	130.7	127.7	124.8
82.5°	82.8	84.8	82.8	81.8	81.8
85°	39.9	44.9	42.9	43.9	43.9
87.5°	13.0	15.0	18.0	19.0	19.0
90°	2.0	4.0	5.0	6.0	6.0
92.5°	14.0	15.0	19.0	19.0	20.0
95°	26.9	25.0	25.0	26.9	27.9
97.5°	38.9	39.9	31.9	31.9	32.9
100°	50.9	62.9	48.9	39.9	38.9
102.5°	62.9	91.8	62.9	54.9	49.9
105°	75.8	120.8	76.8	76.8	70.9
107.5°	86.8	147.7	98.8	80.8	81.8
110°	98.8	182.6	125.7	98.8	92.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.8	216.6	158.7	118.8	110.8
115°	119.8	240.5	189.6	145.7	130.7
117.5°	128.7	251.5	213.6	175.6	158.7
120°	138.7	255.5	232.5	206.6	189.6
122.5°	145.7	252.5	247.5	236.5	223.6
125°	153.7	244.5	273.5	252.5	252.5
127.5°	159.7	235.5	296.4	268.5	266.5
130°	165.7	227.5	313.4	278.4	280.4
132.5°	170.7	222.6	319.4	301.4	288.4
135°	175.6	219.6	319.4	322.4	313.4
137.5°	179.6	217.6	314.4	337.3	332.3
140°	183.6	215.6	305.4	342.3	348.3
142.5°	186.6	213.6	292.4	341.3	351.3
145°	187.6	211.6	276.4	334.3	346.3
147.5°	188.6	209.6	260.5	322.4	336.3
150°	189.6	208.6	247.5	303.4	322.4
152.5°	189.6	206.6	237.5	280.4	301.4
155°	190.6	204.6	229.5	262.5	277.4
157.5°	191.6	202.6	223.6	247.5	259.5
160°	192.6	200.6	217.6	236.5	244.5
162.5°	192.6	199.6	213.6	226.5	231.5
165°	192.6	198.6	209.6	218.6	221.6
167.5°	192.6	197.6	203.6	211.6	214.6
170°	193.6	196.6	199.6	205.6	208.6
172.5°	194.6	195.6	196.6	200.6	202.6
175°	193.6	194.6	194.6	196.6	196.6
177.5°	193.6	193.6	193.6	194.6	193.6
180°	192.6	192.6	192.6	192.6	192.6

(END OF REPORT)