

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: P253436

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253436
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-50L93050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4256.6 lumens
Efficiency: N/A
Efficacy: 82.5 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

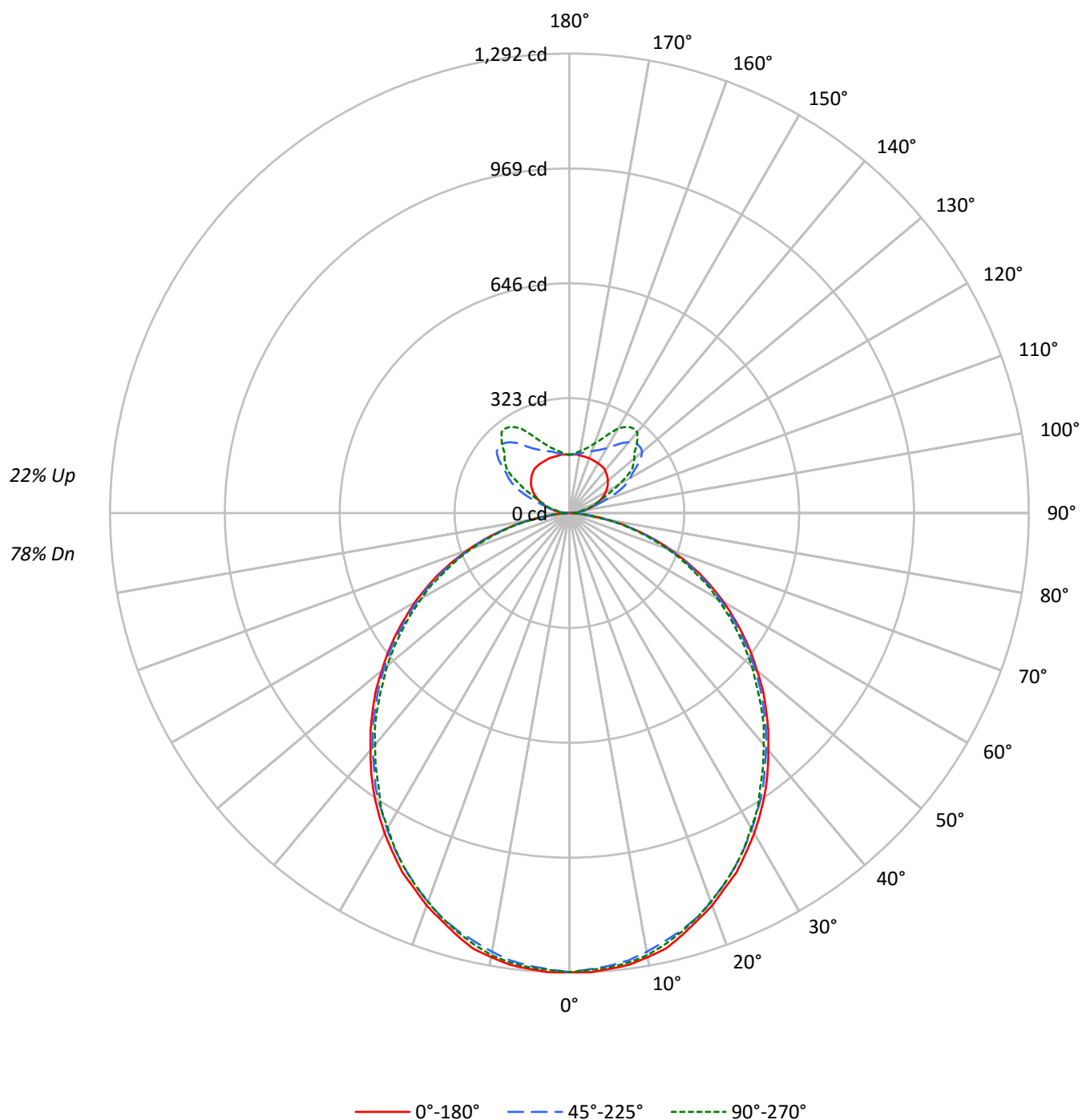
Input Watts (W): 51.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10421	10421	10421
5°	10426	10357	10391
10°	10393	10267	10344
15°	10262	10155	10184
20°	10088	10001	9986
25°	9916	9795	9795
30°	9687	9560	9529
35°	9455	9346	9228
40°	9170	9072	8955
45°	8926	8809	8683
50°	8645	8548	8398
55°	8384	8252	8085
60°	8094	7958	7739
65°	7727	7564	7320
70°	7161	7001	6880
75°	6388	6307	6123
80°	5216	5174	4937
85°	3149	3381	3464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	2.9
10°-20°	344.0	8.1
20°-30°	507.9	11.9
30°-40°	593.1	13.9
40°-50°	595.9	14.0
50°-60°	524.6	12.3
60°-70°	390.5	9.2
70°-80°	213.8	5.0
80°-90°	48.7	1.1
90°-100°	24.4	0.6
100°-110°	77.2	1.8
110°-120°	145.9	3.4
120°-130°	183.9	4.3
130°-140°	180.7	4.2
140°-150°	145.2	3.4
150°-160°	92.6	2.2
160°-170°	50.6	1.2
170°-180°	16.0	0.4
0°-30°	973.7	22.9
0°-40°	1566.7	36.8
0°-60°	2687.2	63.1
0°-90°	3340.2	78.5
90°-120°	247.4	5.8
90°-150°	757.2	17.8
90°-180°	916.0	21.5
0°-180°	4256.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1286	1286	1278	1283	1282	122
15°	1228	1223	1215	1221	1218	346
25°	1113	1106	1100	1100	1100	512
35°	959	956	948	941	936	599
45°	782	780	772	765	760	604
55°	596	596	586	578	574	532
65°	404	401	396	387	383	399
75°	205	205	202	200	196	219
85°	34	38	36	37	37	45
90°	2	3	4	5	5	4
95°	23	21	21	23	24	23
105°	65	103	65	65	60	67
115°	102	205	162	124	111	101
125°	131	208	233	215	215	117
135°	150	187	272	274	267	115
145°	160	180	235	285	295	100
155°	162	174	195	224	236	75
165°	164	169	178	186	189	47
175°	165	166	166	167	167	16
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.8	1290.8	1290.8	1290.8	1290.8
2.5°	1292.5	1291.6	1284.0	1289.9	1285.7
5°	1286.5	1285.7	1278.0	1283.1	1282.3
7.5°	1281.4	1274.6	1268.7	1272.9	1274.6
10°	1267.8	1259.3	1252.5	1261.9	1261.9
12.5°	1254.2	1243.2	1233.8	1245.7	1242.3
15°	1227.9	1222.8	1215.1	1221.1	1218.5
17.5°	1199.8	1199.8	1192.2	1195.6	1193.0
20°	1174.3	1172.6	1164.1	1167.5	1162.4
22.5°	1141.2	1141.2	1131.9	1134.4	1132.7
25°	1113.2	1105.5	1099.6	1100.4	1099.6
27.5°	1075.8	1071.5	1063.9	1065.6	1063.0
30°	1039.2	1033.3	1025.6	1028.2	1022.2
32.5°	1000.1	995.9	986.6	985.7	984.9
35°	959.4	956.0	948.3	940.7	936.4
37.5°	916.0	915.2	902.4	899.0	894.8
40°	870.1	871.0	860.8	854.8	849.7
42.5°	827.7	824.3	817.5	809.8	809.0
45°	781.8	780.1	771.6	764.8	760.5
47.5°	738.4	735.9	727.4	719.7	712.9
50°	688.3	690.0	680.6	672.1	668.7
52.5°	643.3	645.0	634.8	625.4	622.0
55°	595.7	596.5	586.3	577.8	574.4
57.5°	547.2	548.1	539.6	531.9	527.7
60°	501.3	498.8	492.9	483.5	479.3
62.5°	452.1	452.1	443.6	435.9	435.9
65°	404.5	401.1	396.0	386.6	383.2
67.5°	354.3	351.8	345.8	339.0	339.9
70°	303.4	301.7	296.6	292.3	291.5
72.5°	256.6	253.2	249.8	245.6	243.9
75°	204.8	204.8	202.2	199.7	196.3
77.5°	159.8	158.1	156.4	153.8	152.1
80°	112.2	112.2	111.3	108.8	106.2
82.5°	70.5	72.2	70.5	69.7	69.7
85°	34.0	38.2	36.5	37.4	37.4
87.5°	11.0	12.7	15.3	16.1	16.1
90°	1.7	3.4	4.2	5.1	5.1
92.5°	11.9	12.7	16.1	16.1	17.0
95°	22.9	21.2	21.2	22.9	23.8
97.5°	33.1	34.0	27.2	27.2	28.0
100°	43.3	53.5	41.6	34.0	33.1
102.5°	53.5	78.2	53.5	46.7	42.5
105°	64.6	102.8	65.4	65.4	60.3
107.5°	73.9	125.8	84.1	68.8	69.7
110°	84.1	155.5	107.1	84.1	79.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.5	184.4	135.1	101.1	94.3
115°	102.0	204.8	161.5	124.1	111.3
117.5°	109.6	214.1	181.8	149.6	135.1
120°	118.1	217.5	198.0	175.9	161.5
122.5°	124.1	215.0	210.7	201.4	190.3
125°	130.9	208.2	232.8	215.0	215.0
127.5°	136.0	200.5	252.4	228.6	226.9
130°	141.1	193.7	266.8	237.1	238.8
132.5°	145.3	189.5	271.9	256.6	245.6
135°	149.6	186.9	271.9	274.5	266.8
137.5°	153.0	185.2	267.7	287.2	283.0
140°	156.4	183.5	260.0	291.5	296.6
142.5°	158.9	181.8	249.0	290.6	299.1
145°	159.8	180.1	235.4	284.7	294.9
147.5°	160.6	178.4	221.8	274.5	286.4
150°	161.5	177.6	210.7	258.3	274.5
152.5°	161.5	175.9	202.2	238.8	256.6
155°	162.3	174.2	195.4	223.5	236.2
157.5°	163.2	172.5	190.3	210.7	220.9
160°	164.0	170.8	185.2	201.4	208.2
162.5°	164.0	169.9	181.8	192.9	197.1
165°	164.0	169.1	178.4	186.1	188.6
167.5°	164.0	168.2	173.3	180.1	182.7
170°	164.9	167.4	169.9	175.0	177.6
172.5°	165.7	166.5	167.4	170.8	172.5
175°	164.9	165.7	165.7	167.4	167.4
177.5°	164.9	164.9	164.9	165.7	164.9
180°	164.0	164.0	164.0	164.0	164.0

(END OF REPORT)