

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: P253439

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253439
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4677.8 lumens
Efficiency: N/A
Efficacy: 88.6 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

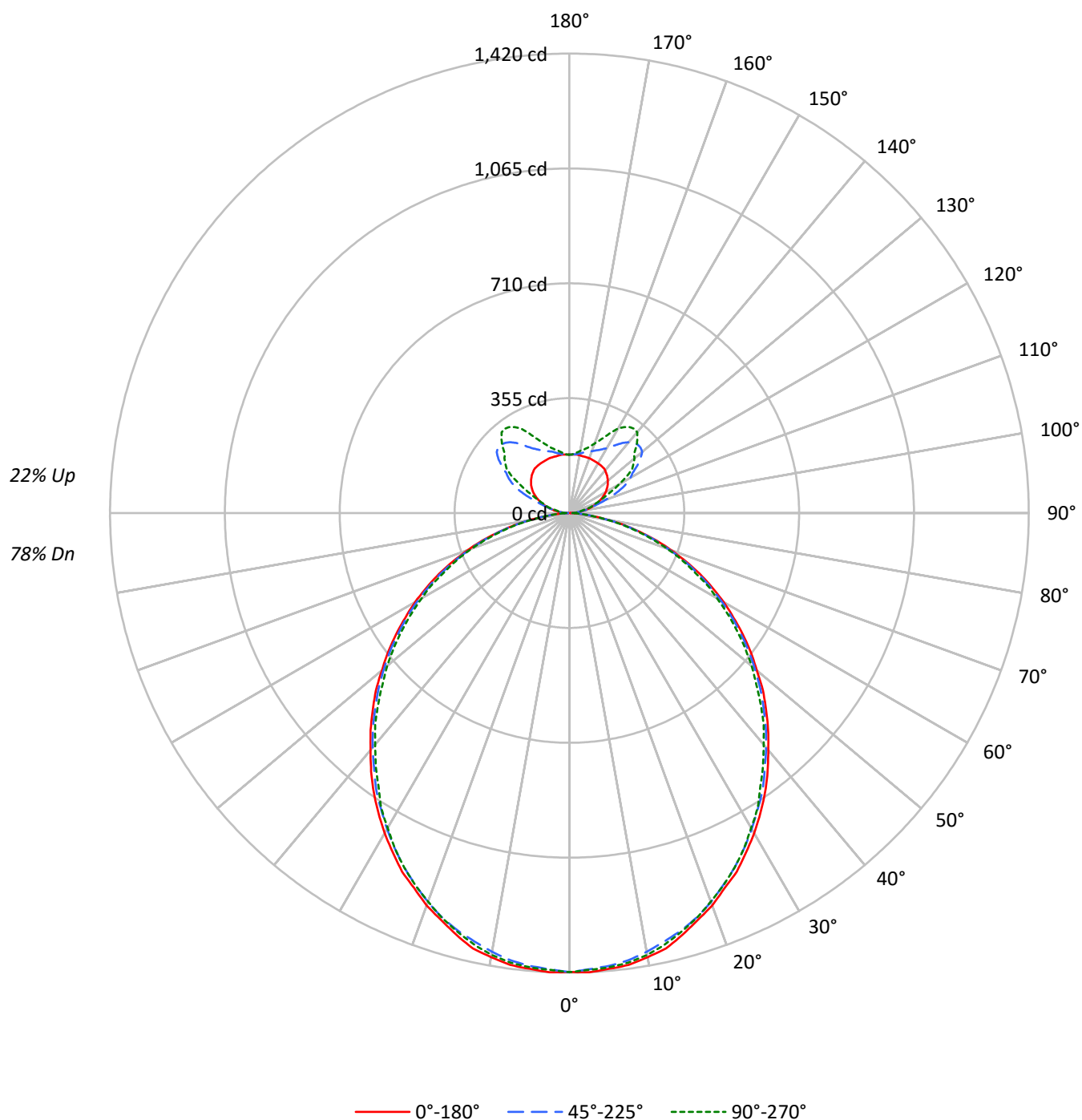
Input Watts (W): 52.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253439

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253439

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-W-4 (5000K)

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°	11451	11451	11451
5°	11457	11382	11419
10°	11422	11283	11367
15°	11278	11161	11192
20°	11087	10991	10975
25°	10897	10764	10764
30°	10646	10507	10472
35°	10390	10270	10142
40°	10077	9969	9841
45°	9808	9680	9542
50°	9500	9394	9230
55°	9213	9068	8885
60°	8896	8745	8504
65°	8491	8313	8046
70°	7869	7692	7560
75°	7021	6931	6728
80°	5732	5686	5425
85°	3464	3724	3807



TEST NUMBER: P253439

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	2.9
10°-20°	378.1	8.1
20°-30°	558.2	11.9
30°-40°	651.7	13.9
40°-50°	654.8	14.0
50°-60°	576.5	12.3
60°-70°	429.1	9.2
70°-80°	235.0	5.0
80°-90°	53.6	1.1
90°-100°	26.8	0.6
100°-110°	84.8	1.8
110°-120°	160.3	3.4
120°-130°	202.1	4.3
130°-140°	198.6	4.2
140°-150°	159.5	3.4
150°-160°	101.8	2.2
160°-170°	55.6	1.2
170°-180°	17.6	0.4
0°-30°	1070.0	22.9
0°-40°	1721.7	36.8
0°-60°	2953.0	63.1
0°-90°	3670.7	78.5
90°-120°	272.0	5.8
90°-150°	832.1	17.8
90°-180°	1007.0	21.5
0°-180°	4677.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1414	1413	1404	1410	1409	134
15°	1349	1344	1335	1342	1339	380
25°	1223	1215	1208	1209	1208	562
35°	1054	1050	1042	1034	1029	659
45°	859	857	848	840	836	663
55°	655	656	644	635	631	585
65°	444	441	435	425	421	439
75°	225	225	222	219	216	240
85°	37	42	40	41	41	50
90°	2	4	5	6	6	4
95°	25	23	23	25	26	25
105°	71	113	72	72	66	74
115°	112	225	177	136	122	111
125°	144	229	256	236	236	128
135°	164	205	299	302	293	127
145°	176	198	259	313	324	110
155°	178	191	215	246	260	83
165°	180	186	196	204	207	51
175°	181	182	182	184	184	17
180°	180	180	180	180	180	



TEST NUMBER: P253439

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.5	1418.5	1418.5	1418.5	1418.5
2.5°	1420.3	1419.4	1411.0	1417.5	1412.9
5°	1413.8	1412.9	1404.5	1410.1	1409.1
7.5°	1408.2	1400.7	1394.2	1398.9	1400.7
10°	1393.3	1383.9	1376.4	1386.7	1386.7
12.5°	1378.3	1366.2	1355.9	1369.0	1365.2
15°	1349.4	1343.8	1335.4	1341.9	1339.1
17.5°	1318.6	1318.6	1310.1	1313.9	1311.1
20°	1290.5	1288.7	1279.3	1283.1	1277.5
22.5°	1254.1	1254.1	1243.8	1246.6	1244.8
25°	1223.3	1214.9	1208.4	1209.3	1208.4
27.5°	1182.2	1177.5	1169.1	1171.0	1168.2
30°	1142.1	1135.5	1127.1	1129.9	1123.4
32.5°	1099.1	1094.4	1084.2	1083.2	1082.3
35°	1054.3	1050.5	1042.1	1033.7	1029.1
37.5°	1006.7	1005.7	991.7	988.0	983.3
40°	956.2	957.2	946.0	939.4	933.8
42.5°	909.5	905.8	898.3	889.9	889.0
45°	859.1	857.2	847.9	840.4	835.8
47.5°	811.5	808.7	799.3	790.9	783.5
50°	756.4	758.3	748.0	738.7	734.9
52.5°	706.9	708.8	697.6	687.3	683.6
55°	654.6	655.5	644.3	635.0	631.3
57.5°	601.4	602.3	593.0	584.6	579.9
60°	551.0	548.2	541.6	531.3	526.7
62.5°	496.8	496.8	487.5	479.0	479.0
65°	444.5	440.8	435.2	424.9	421.2
67.5°	389.4	386.6	380.1	372.6	373.5
70°	333.4	331.5	325.9	321.2	320.3
72.5°	282.0	278.3	274.5	269.9	268.0
75°	225.1	225.1	222.2	219.4	215.7
77.5°	175.6	173.7	171.8	169.0	167.2
80°	123.3	123.3	122.3	119.5	116.7
82.5°	77.5	79.4	77.5	76.6	76.6
85°	37.4	42.0	40.2	41.1	41.1
87.5°	12.1	14.0	16.8	17.7	17.7
90°	1.9	3.7	4.7	5.6	5.6
92.5°	13.1	14.0	17.7	17.7	18.7
95°	25.2	23.3	23.3	25.2	26.1
97.5°	36.4	37.4	29.9	29.9	30.8
100°	47.6	58.8	45.8	37.4	36.4
102.5°	58.8	85.9	58.8	51.4	46.7
105°	71.0	113.0	71.9	71.9	66.3
107.5°	81.2	138.2	92.4	75.6	76.6
110°	92.4	170.9	117.7	92.4	86.8



TEST NUMBER: P253439

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.7	202.6	148.5	111.1	103.7
115°	112.1	225.1	177.4	136.3	122.3
117.5°	120.5	235.3	199.8	164.4	148.5
120°	129.8	239.1	217.6	193.3	177.4
122.5°	136.3	236.3	231.6	221.3	209.2
125°	143.8	228.8	255.9	236.3	236.3
127.5°	149.4	220.4	277.3	251.2	249.3
130°	155.0	212.9	293.2	260.5	262.4
132.5°	159.7	208.2	298.8	282.0	269.9
135°	164.4	205.4	298.8	301.6	293.2
137.5°	168.1	203.6	294.2	315.6	311.0
140°	171.8	201.7	285.7	320.3	325.9
142.5°	174.6	199.8	273.6	319.4	328.7
145°	175.6	198.0	258.7	312.8	324.0
147.5°	176.5	196.1	243.7	301.6	314.7
150°	177.4	195.2	231.6	283.9	301.6
152.5°	177.4	193.3	222.2	262.4	282.0
155°	178.4	191.4	214.8	245.6	259.6
157.5°	179.3	189.6	209.2	231.6	242.8
160°	180.2	187.7	203.6	221.3	228.8
162.5°	180.2	186.8	199.8	212.0	216.6
165°	180.2	185.8	196.1	204.5	207.3
167.5°	180.2	184.9	190.5	198.0	200.8
170°	181.2	184.0	186.8	192.4	195.2
172.5°	182.1	183.0	184.0	187.7	189.6
175°	181.2	182.1	182.1	184.0	184.0
177.5°	181.2	181.2	181.2	182.1	181.2
180°	180.2	180.2	180.2	180.2	180.2

(END OF REPORT)