

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: P253438

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253438
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4678.7 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

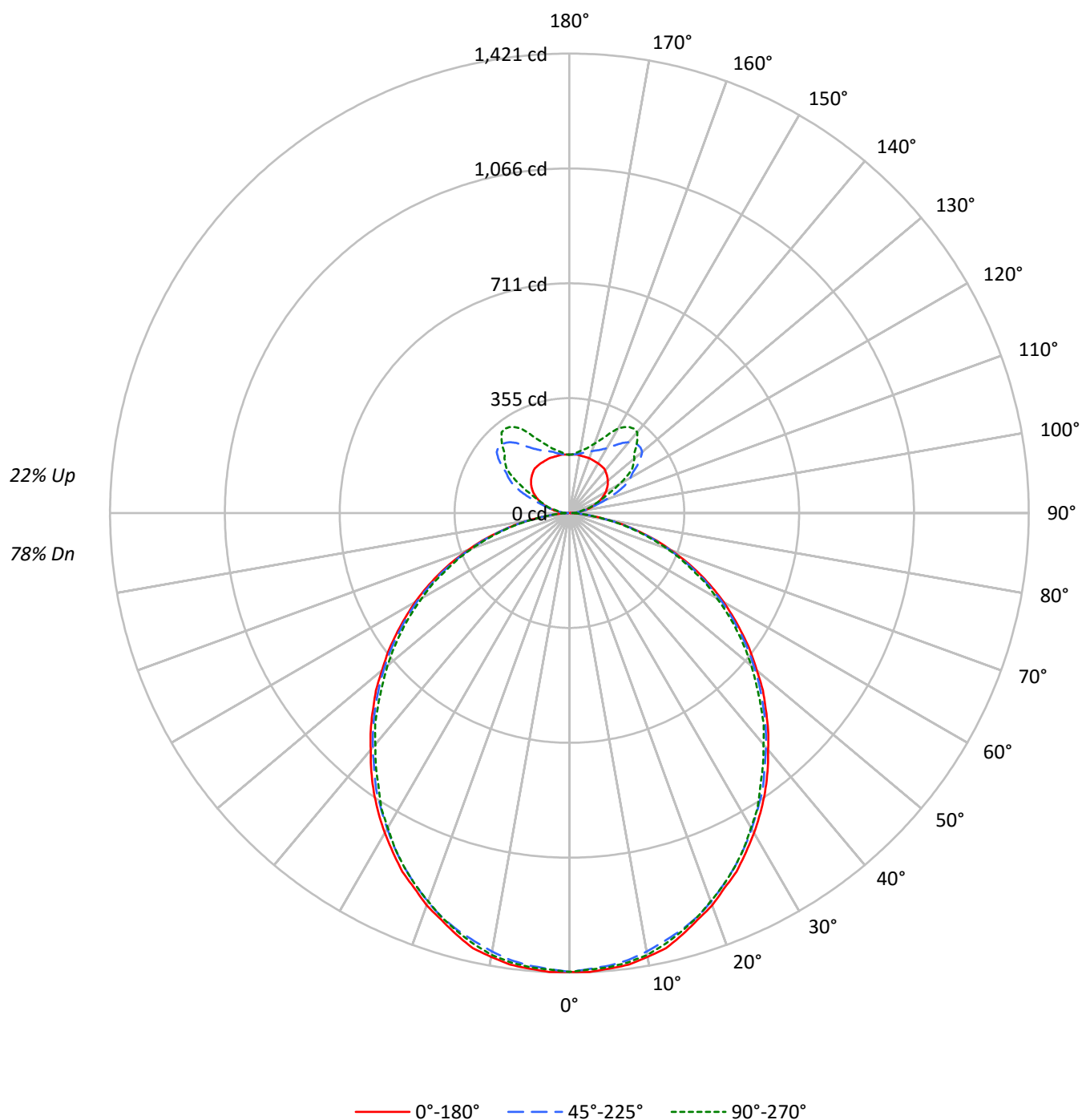
Input Watts (W): 52.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11453	11453	11453
5°	11460	11383	11421
10°	11423	11285	11370
15°	11280	11163	11194
20°	11089	10993	10977
25°	10898	10766	10766
30°	10648	10509	10474
35°	10392	10272	10144
40°	10079	9970	9843
45°	9811	9683	9543
50°	9501	9396	9231
55°	9215	9071	8887
60°	8898	8746	8506
65°	8493	8313	8046
70°	7869	7695	7563
75°	7021	6934	6731
80°	5732	5690	5425
85°	3464	3724	3807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	2.9
10°-20°	378.1	8.1
20°-30°	558.3	11.9
30°-40°	651.9	13.9
40°-50°	654.9	14.0
50°-60°	576.6	12.3
60°-70°	429.2	9.2
70°-80°	235.0	5.0
80°-90°	53.6	1.1
90°-100°	26.9	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°	1070.2	22.9
0°-40°	1722.1	36.8
0°-60°	2953.6	63.1
0°-90°	3671.3	78.5
90°-120°	272.0	5.8
90°-150°	832.3	17.8
90°-180°	1007.0	21.5
0°-180°	4678.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1414	1413	1405	1410	1409	134
15°	1350	1344	1336	1342	1339	380
25°	1224	1215	1209	1210	1209	562
35°	1054	1051	1042	1034	1029	659
45°	859	857	848	841	836	663
55°	655	656	644	635	631	585
65°	445	441	435	425	421	439
75°	225	225	222	220	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	178	136	122	111
125°	144	229	256	236	236	128
135°	164	206	299	302	293	127
145°	176	198	259	313	324	110
155°	178	192	215	246	260	83
165°	180	186	196	204	207	51
175°	181	182	182	184	184	17
180°	180	180	180	180	180	



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CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.7	1418.7	1418.7	1418.7	1418.7
2.5°	1420.6	1419.7	1411.3	1417.8	1413.1
5°	1414.1	1413.1	1404.7	1410.3	1409.4
7.5°	1408.5	1401.0	1394.4	1399.1	1401.0
10°	1393.5	1384.2	1376.7	1387.0	1387.0
12.5°	1378.6	1366.4	1356.2	1369.2	1365.5
15°	1349.6	1344.0	1335.6	1342.1	1339.3
17.5°	1318.8	1318.8	1310.4	1314.1	1311.3
20°	1290.8	1288.9	1279.6	1283.3	1277.7
22.5°	1254.3	1254.3	1244.1	1246.9	1245.0
25°	1223.5	1215.1	1208.6	1209.5	1208.6
27.5°	1182.4	1177.8	1169.4	1171.2	1168.4
30°	1142.3	1135.7	1127.3	1130.1	1123.6
32.5°	1099.3	1094.6	1084.4	1083.4	1082.5
35°	1054.5	1050.7	1042.3	1033.9	1029.3
37.5°	1006.8	1005.9	991.9	988.2	983.5
40°	956.4	957.3	946.1	939.6	934.0
42.5°	909.7	906.0	898.5	890.1	889.2
45°	859.3	857.4	848.1	840.6	835.9
47.5°	811.6	808.8	799.5	791.1	783.6
50°	756.5	758.4	748.1	738.8	735.0
52.5°	707.0	708.9	697.7	687.4	683.7
55°	654.7	655.7	644.5	635.1	631.4
57.5°	601.5	602.4	593.1	584.7	580.0
60°	551.1	548.3	541.7	531.4	526.8
62.5°	496.9	496.9	487.5	479.1	479.1
65°	444.6	440.8	435.2	425.0	421.2
67.5°	389.5	386.7	380.1	372.7	373.6
70°	333.4	331.6	326.0	321.3	320.4
72.5°	282.1	278.3	274.6	269.9	268.1
75°	225.1	225.1	222.3	219.5	215.8
77.5°	175.6	173.7	171.9	169.1	167.2
80°	123.3	123.3	122.4	119.6	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	26.2
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°	81.3	138.2	92.5	75.7	76.6
110°	92.5	170.9	117.7	92.5	86.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.7	202.7	148.5	111.1	103.7
115°	112.1	225.1	177.5	136.4	122.4
117.5°	120.5	235.4	199.9	164.4	148.5
120°	129.8	239.1	217.6	193.3	177.5
122.5°	136.4	236.3	231.6	221.4	209.2
125°	143.8	228.8	255.9	236.3	236.3
127.5°	149.4	220.4	277.4	251.2	249.4
130°	155.0	212.9	293.3	260.6	262.5
132.5°	159.7	208.3	298.9	282.1	269.9
135°	164.4	205.5	298.9	301.7	293.3
137.5°	168.1	203.6	294.2	315.7	311.0
140°	171.9	201.7	285.8	320.4	326.0
142.5°	174.7	199.9	273.7	319.4	328.8
145°	175.6	198.0	258.7	312.9	324.1
147.5°	176.5	196.1	243.8	301.7	314.8
150°	177.5	195.2	231.6	283.9	301.7
152.5°	177.5	193.3	222.3	262.5	282.1
155°	178.4	191.5	214.8	245.6	259.6
157.5°	179.3	189.6	209.2	231.6	242.8
160°	180.3	187.7	203.6	221.4	228.8
162.5°	180.3	186.8	199.9	212.0	216.7
165°	180.3	185.9	196.1	204.5	207.3
167.5°	180.3	184.9	190.5	198.0	200.8
170°	181.2	184.0	186.8	192.4	195.2
172.5°	182.1	183.1	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°	180.3	180.3	180.3	180.3	180.3

(END OF REPORT)