

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: P253437

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253437
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4601.2 lumens
Efficiency: N/A
Efficacy: 88.5 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

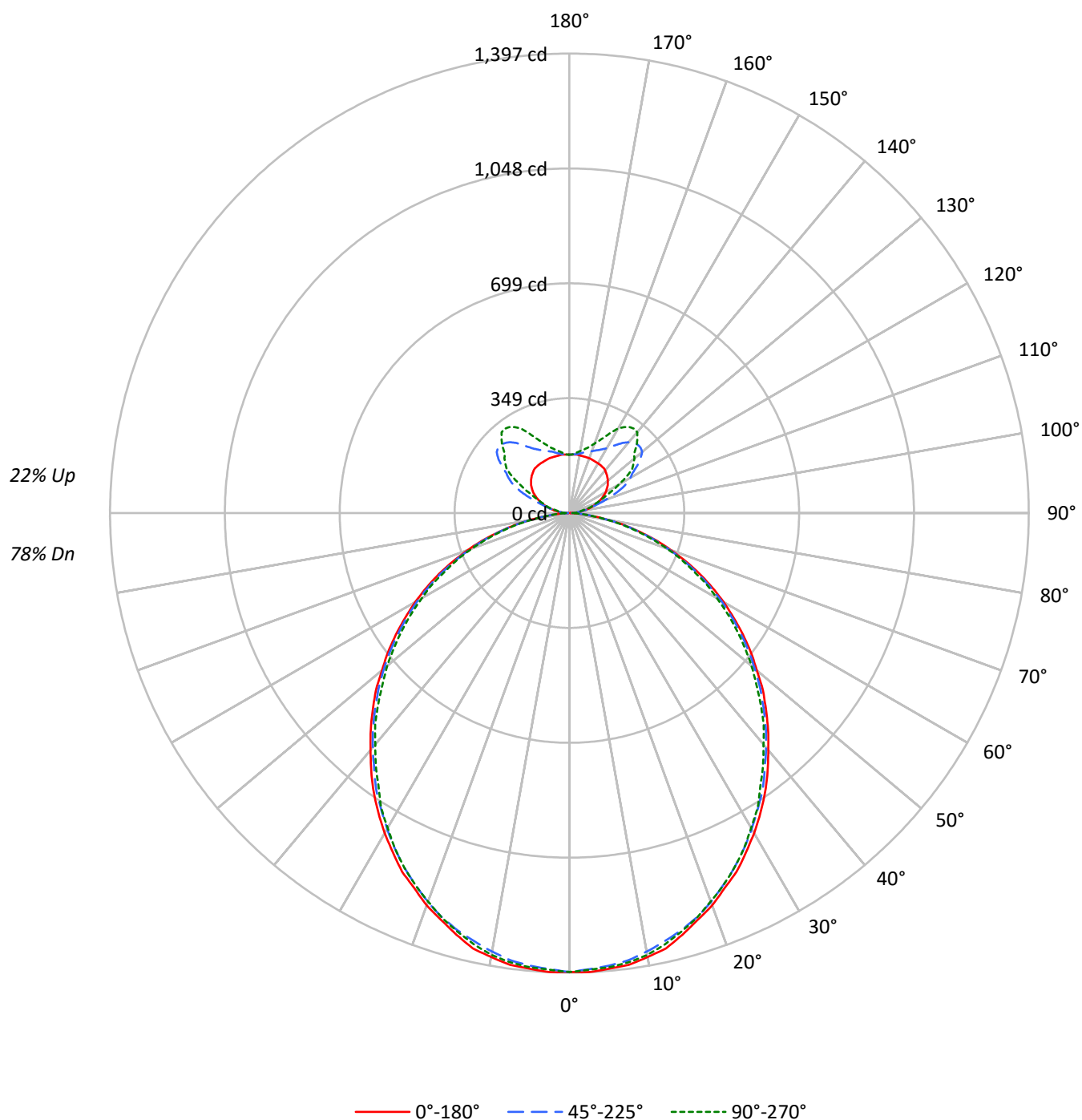
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11263	11263	11263
5°	11269	11195	11232
10°	11234	11099	11181
15°	11093	10978	11008
20°	10905	10811	10795
25°	10718	10587	10587
30°	10471	10334	10301
35°	10220	10103	9975
40°	9912	9806	9680
45°	9647	9522	9386
50°	9344	9240	9079
55°	9063	8921	8739
60°	8749	8601	8364
65°	8351	8176	7912
70°	7740	7567	7435
75°	6906	6818	6619
80°	5635	5593	5337
85°	3399	3659	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	2.9
10°-20°	371.9	8.1
20°-30°	549.0	11.9
30°-40°	641.1	13.9
40°-50°	644.1	14.0
50°-60°	567.0	12.3
60°-70°	422.0	9.2
70°-80°	231.1	5.0
80°-90°	52.7	1.1
90°-100°	26.4	0.6
100°-110°	83.4	1.8
110°-120°	157.7	3.4
120°-130°	198.8	4.3
130°-140°	195.3	4.2
140°-150°	156.9	3.4
150°-160°	100.1	2.2
160°-170°	54.7	1.2
170°-180°	17.3	0.4
0°-30°	1052.5	22.9
0°-40°	1693.5	36.8
0°-60°	2904.6	63.1
0°-90°	3610.5	78.5
90°-120°	267.5	5.8
90°-150°	818.5	17.8
90°-180°	991.0	21.5
0°-180°	4601.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1391	1390	1381	1387	1386	132
15°	1327	1322	1314	1320	1317	374
25°	1203	1195	1189	1190	1189	553
35°	1037	1033	1025	1017	1012	648
45°	845	843	834	827	822	652
55°	644	645	634	625	621	575
65°	437	434	428	418	414	431
75°	221	221	219	216	212	236
85°	37	41	40	40	40	49
90°	2	4	5	6	6	4
95°	25	23	23	25	26	25
105°	70	111	71	71	65	73
115°	110	221	174	134	120	109
125°	142	225	252	232	232	126
135°	162	202	294	297	288	125
145°	173	195	254	308	319	108
155°	175	188	211	242	255	81
165°	177	183	193	201	204	50
175°	178	179	179	181	181	17
180°	177	177	177	177	177	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1397.1	1396.1	1387.9	1394.3	1389.7
5°	1390.6	1389.7	1381.4	1387.0	1386.0
7.5°	1385.1	1377.8	1371.3	1375.9	1377.8
10°	1370.4	1361.2	1353.9	1364.0	1364.0
12.5°	1355.7	1343.8	1333.7	1346.5	1342.9
15°	1327.3	1321.7	1313.5	1319.9	1317.1
17.5°	1296.9	1296.9	1288.7	1292.3	1289.6
20°	1269.4	1267.5	1258.4	1262.0	1256.5
22.5°	1233.6	1233.6	1223.5	1226.2	1224.4
25°	1203.3	1195.0	1188.6	1189.5	1188.6
27.5°	1162.8	1158.2	1150.0	1151.8	1149.1
30°	1123.3	1116.9	1108.6	1111.4	1105.0
32.5°	1081.1	1076.5	1066.4	1065.5	1064.6
35°	1037.0	1033.3	1025.1	1016.8	1012.2
37.5°	990.2	989.2	975.5	971.8	967.2
40°	940.6	941.5	930.5	924.0	918.5
42.5°	894.6	891.0	883.6	875.3	874.4
45°	845.0	843.2	834.0	826.7	822.1
47.5°	798.2	795.4	786.2	778.0	770.6
50°	744.0	745.8	735.7	726.5	722.9
52.5°	695.3	697.2	686.1	676.0	672.4
55°	643.9	644.8	633.8	624.6	620.9
57.5°	591.5	592.4	583.3	575.0	570.4
60°	541.9	539.2	532.7	522.6	518.0
62.5°	488.6	488.6	479.5	471.2	471.2
65°	437.2	433.5	428.0	417.9	414.2
67.5°	383.0	380.3	373.8	366.5	367.4
70°	327.9	326.1	320.6	316.0	315.0
72.5°	277.4	273.7	270.0	265.5	263.6
75°	221.4	221.4	218.6	215.9	212.2
77.5°	172.7	170.8	169.0	166.3	164.4
80°	121.2	121.2	120.3	117.6	114.8
82.5°	76.2	78.1	76.2	75.3	75.3
85°	36.7	41.3	39.5	40.4	40.4
87.5°	11.9	13.8	16.5	17.5	17.5
90°	1.8	3.7	4.6	5.5	5.5
92.5°	12.9	13.8	17.5	17.5	18.4
95°	24.8	23.0	23.0	24.8	25.7
97.5°	35.8	36.7	29.4	29.4	30.3
100°	46.8	57.9	45.0	36.7	35.8
102.5°	57.9	84.5	57.9	50.5	45.9
105°	69.8	111.1	70.7	70.7	65.2
107.5°	79.9	135.9	90.9	74.4	75.3
110°	90.9	168.1	115.7	90.9	85.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.0	199.3	146.0	109.3	102.0
115°	110.2	221.4	174.5	134.1	120.3
117.5°	118.5	231.5	196.6	161.7	146.0
120°	127.7	235.1	214.0	190.1	174.5
122.5°	134.1	232.4	227.8	217.7	205.7
125°	141.5	225.0	251.7	232.4	232.4
127.5°	147.0	216.8	272.8	247.1	245.2
130°	152.5	209.4	288.4	256.3	258.1
132.5°	157.1	204.8	293.9	277.4	265.5
135°	161.7	202.1	293.9	296.7	288.4
137.5°	165.3	200.2	289.3	310.5	305.9
140°	169.0	198.4	281.1	315.0	320.6
142.5°	171.8	196.6	269.1	314.1	323.3
145°	172.7	194.7	254.4	307.7	318.7
147.5°	173.6	192.9	239.7	296.7	309.5
150°	174.5	192.0	227.8	279.2	296.7
152.5°	174.5	190.1	218.6	258.1	277.4
155°	175.4	188.3	211.3	241.6	255.3
157.5°	176.4	186.5	205.7	227.8	238.8
160°	177.3	184.6	200.2	217.7	225.0
162.5°	177.3	183.7	196.6	208.5	213.1
165°	177.3	182.8	192.9	201.2	203.9
167.5°	177.3	181.9	187.4	194.7	197.5
170°	178.2	180.9	183.7	189.2	192.0
172.5°	179.1	180.0	180.9	184.6	186.5
175°	178.2	179.1	179.1	180.9	180.9
177.5°	178.2	178.2	178.2	179.1	178.2
180°	177.3	177.3	177.3	177.3	177.3

(END OF REPORT)