

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: P253282

Luminaire Tested: **J2-WL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L830-1D-UNV-STD-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

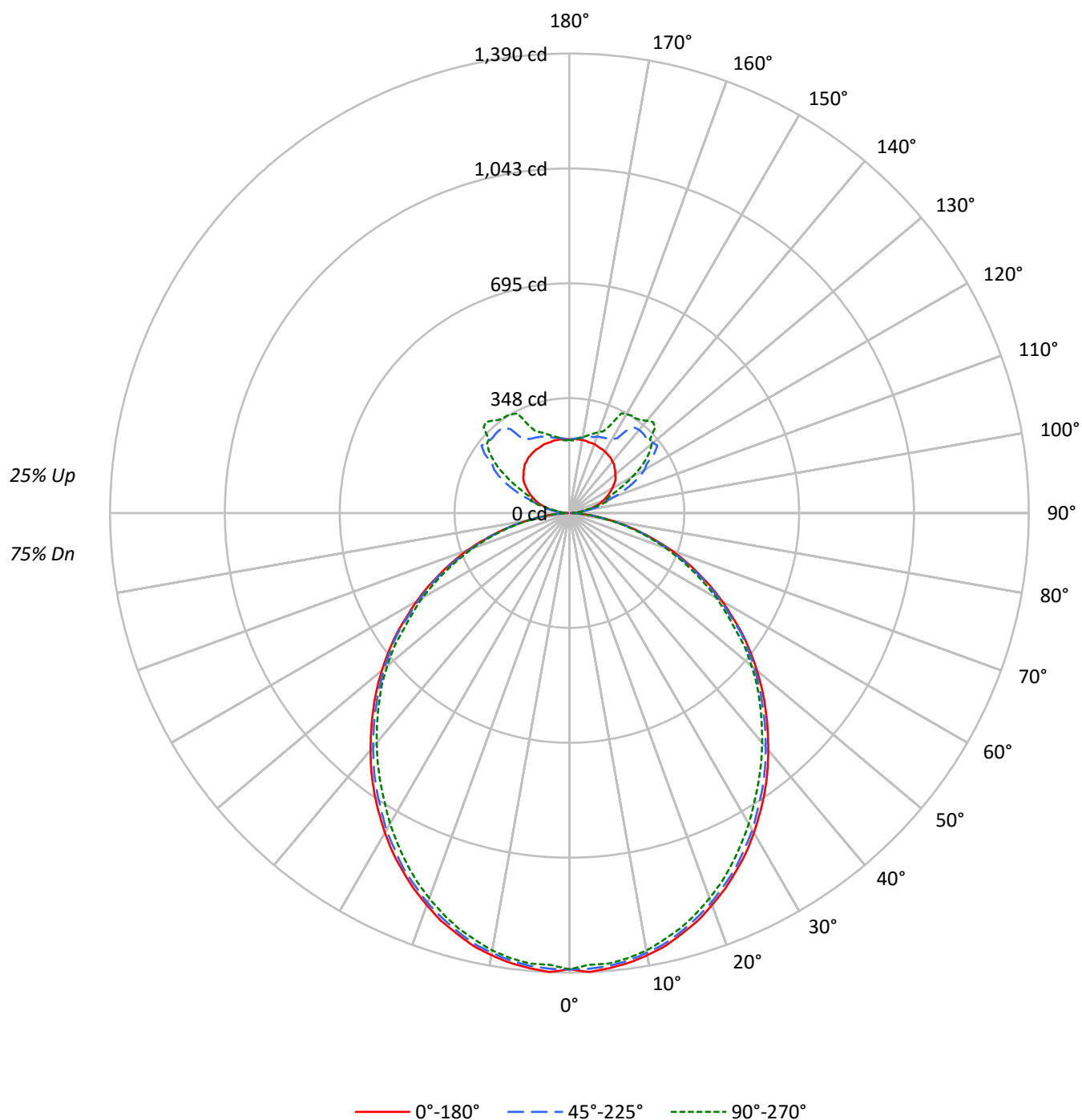
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	113	113	113	113	108	108	108	108	97	97	97		88	88	88		79
1	103	99	95	91	98	94	91	87	85	83	80		77	75	73		70
2	94	86	80	75	89	82	77	72	75	70	66		68	64	61		62
3	86	76	68	62	81	73	66	60	66	60	56		60	56	52		55
4	79	67	59	53	75	64	57	51	59	53	48		54	49	44		49
5	72	60	52	45	69	58	50	44	53	46	41		48	43	39		44
6	67	54	46	40	63	52	44	38	48	41	36		44	38	34		40
7	62	49	41	35	59	47	39	34	43	37	32		40	34	30		36
8	58	45	37	31	55	43	35	30	40	33	29		36	31	27		34
9	54	41	33	28	51	39	32	27	36	30	26		34	28	24		31
10	50	38	30	25	48	36	29	24	34	27	23		31	26	22		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11140	11140	11140
5°	11202	11143	11084
10°	11133	11074	11015
15°	11008	10948	10867
20°	10839	10777	10652
25°	10636	10572	10400
30°	10412	10322	10119
35°	10152	10033	9819
40°	9864	9737	9558
45°	9584	9446	9309
50°	9301	9180	9029
55°	8998	8929	8624
60°	8607	8491	8296
65°	8202	8065	7834
70°	7744	7459	7345
75°	6921	6847	6622
80°	5830	5830	5607
85°	4465	4696	4465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	2.7
10°-20°	368.0	7.7
20°-30°	543.1	11.4
30°-40°	633.2	13.3
40°-50°	637.2	13.4
50°-60°	561.1	11.8
60°-70°	416.4	8.7
70°-80°	231.7	4.9
80°-90°	60.3	1.3
90°-100°	30.5	0.6
100°-110°	109.3	2.3
110°-120°	190.9	4.0
120°-130°	240.8	5.0
130°-140°	227.9	4.8
140°-150°	181.5	3.8
150°-160°	119.1	2.5
160°-170°	67.3	1.4
170°-180°	21.7	0.5
0°-30°	1041.3	21.8
0°-40°	1674.5	35.1
0°-60°	2872.8	60.2
0°-90°	3581.2	75.1
90°-120°	330.7	6.9
90°-150°	980.8	20.6
90°-180°	1189.0	24.9
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1382	1368	1375	1370	1368	131
15°	1317	1303	1310	1303	1300	371
25°	1194	1182	1187	1170	1168	550
35°	1030	1018	1018	1001	996	644
45°	840	832	827	815	815	648
55°	639	637	634	618	613	570
65°	429	429	422	412	410	426
75°	222	222	220	215	212	237
85°	48	51	51	51	48	56
90°	5	7	7	10	10	6
95°	26	29	24	22	19	28
105°	82	128	96	109	99	87
115°	130	251	210	171	157	128
125°	169	270	314	292	282	150
135°	193	224	326	367	367	149
145°	210	229	309	347	350	132
155°	217	229	251	270	292	101
165°	222	227	239	246	246	63
175°	224	224	227	227	222	21
180°	222	222	222	222	222	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.9	1379.9	1379.9	1379.9	1379.9
2.5°	1389.5	1372.6	1379.9	1377.4	1367.8
5°	1382.3	1367.8	1375.0	1370.2	1367.8
7.5°	1372.6	1358.1	1365.4	1360.6	1358.1
10°	1358.1	1343.7	1350.9	1343.7	1343.7
12.5°	1341.3	1324.4	1334.0	1324.4	1322.0
15°	1317.1	1302.7	1309.9	1302.7	1300.2
17.5°	1293.0	1278.5	1283.4	1276.1	1271.3
20°	1261.7	1249.6	1254.4	1242.4	1239.9
22.5°	1230.3	1218.2	1220.6	1208.6	1206.2
25°	1194.1	1182.0	1186.9	1170.0	1167.6
27.5°	1157.9	1143.4	1145.9	1129.0	1126.6
30°	1116.9	1104.8	1107.3	1088.0	1085.5
32.5°	1073.5	1061.4	1061.4	1044.5	1039.7
35°	1030.1	1018.0	1018.0	1001.1	996.3
37.5°	984.2	972.2	972.2	955.3	952.9
40°	936.0	926.3	923.9	907.0	907.0
42.5°	887.7	880.5	875.7	861.2	861.2
45°	839.5	832.3	827.4	815.4	815.4
47.5°	791.2	784.0	779.2	769.5	769.5
50°	740.6	735.8	730.9	721.3	718.9
52.5°	689.9	687.5	682.7	673.0	670.6
55°	639.3	636.9	634.4	617.6	612.7
57.5°	583.8	581.4	576.5	564.5	562.1
60°	533.1	528.3	525.9	513.8	513.8
62.5°	482.5	480.1	475.2	463.2	460.8
65°	429.4	429.4	422.2	412.5	410.1
67.5°	378.7	376.3	369.1	361.8	359.4
70°	328.1	325.7	316.0	313.6	311.2
72.5°	275.0	272.6	267.8	262.9	260.5
75°	221.9	221.9	219.5	214.7	212.3
77.5°	173.7	173.7	171.3	168.9	166.5
80°	125.4	127.9	125.4	123.0	120.6
82.5°	84.4	86.8	84.4	84.4	82.0
85°	48.2	50.7	50.7	50.7	48.2
87.5°	19.3	21.7	21.7	19.3	19.3
90°	4.8	7.2	7.2	9.6	9.6
92.5°	12.1	14.5	12.1	14.5	12.1
95°	26.5	28.9	24.1	21.7	19.3
97.5°	41.0	53.1	38.6	36.2	33.8
100°	55.5	70.0	62.7	50.7	43.4
102.5°	70.0	98.9	91.7	72.4	65.1
105°	82.0	127.9	96.5	108.6	98.9
107.5°	96.5	156.8	115.8	115.8	123.0
110°	108.6	195.4	147.2	120.6	120.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	118.2	243.6	178.5	139.9	130.3
115°	130.3	250.9	209.9	171.3	156.8
117.5°	139.9	255.7	238.8	205.0	188.2
120°	149.6	262.9	262.9	234.0	219.5
122.5°	159.2	267.8	277.4	265.4	253.3
125°	168.9	270.2	313.6	291.9	282.2
127.5°	176.1	258.1	335.3	311.2	306.4
130°	180.9	229.2	330.5	318.4	325.7
132.5°	188.2	221.9	325.7	349.8	330.5
135°	193.0	224.3	325.7	366.7	366.7
137.5°	200.2	226.8	328.1	357.0	373.9
140°	202.6	226.8	328.1	349.8	364.3
142.5°	207.5	229.2	325.7	345.0	354.6
145°	209.9	229.2	308.8	347.4	349.8
147.5°	212.3	229.2	267.8	342.6	349.8
150°	214.7	229.2	258.1	340.1	345.0
152.5°	217.1	229.2	253.3	308.8	340.1
155°	217.1	229.2	250.9	270.2	291.9
157.5°	219.5	229.2	248.5	262.9	267.8
160°	221.9	229.2	246.1	258.1	260.5
162.5°	221.9	226.8	241.2	253.3	253.3
165°	221.9	226.8	238.8	246.1	246.1
167.5°	224.3	226.8	234.0	241.2	238.8
170°	224.3	224.3	231.6	236.4	234.0
172.5°	224.3	224.3	229.2	231.6	229.2
175°	224.3	224.3	226.8	226.8	221.9
177.5°	224.3	224.3	224.3	224.3	219.5
180°	221.9	221.9	221.9	221.9	221.9

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