

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: P274951

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274951
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-50L82765-1D-UNV-W2A-W-4 (2700K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4598.6 lumens
Efficiency: N/A
Efficacy: 90.7 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

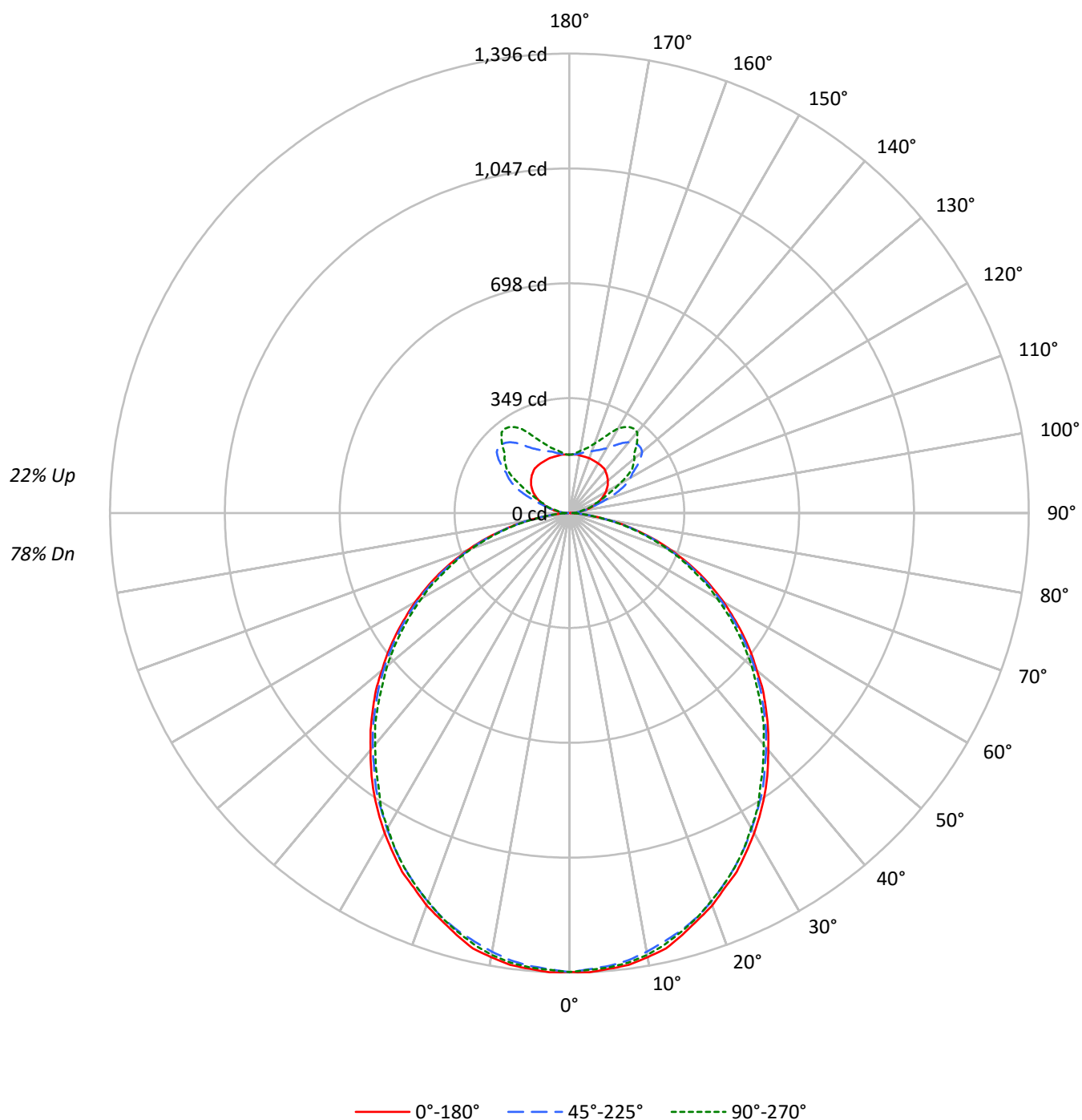
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11257	11257	11257
5°	11263	11189	11226
10°	11228	11092	11175
15°	11087	10971	11002
20°	10899	10805	10789
25°	10712	10581	10581
30°	10466	10329	10295
35°	10214	10097	9970
40°	9906	9800	9674
45°	9643	9516	9380
50°	9339	9235	9074
55°	9057	8915	8735
60°	8745	8596	8360
65°	8348	8172	7908
70°	7735	7563	7433
75°	6900	6815	6616
80°	5635	5593	5337
85°	3399	3659	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	2.9
10°-20°	371.7	8.1
20°-30°	548.7	11.9
30°-40°	640.7	13.9
40°-50°	643.7	14.0
50°-60°	566.7	12.3
60°-70°	421.8	9.2
70°-80°	231.0	5.0
80°-90°	52.7	1.1
90°-100°	26.4	0.6
100°-110°	83.4	1.8
110°-120°	157.6	3.4
120°-130°	198.7	4.3
130°-140°	195.2	4.2
140°-150°	156.8	3.4
150°-160°	100.1	2.2
160°-170°	54.7	1.2
170°-180°	17.3	0.4
0°-30°	1051.9	22.9
0°-40°	1692.6	36.8
0°-60°	2903.0	63.1
0°-90°	3608.5	78.5
90°-120°	267.4	5.8
90°-150°	818.1	17.8
90°-180°	990.0	21.5
0°-180°	4598.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1390	1389	1381	1386	1385	132
15°	1326	1321	1313	1319	1316	374
25°	1203	1194	1188	1189	1188	553
35°	1036	1033	1024	1016	1012	648
45°	845	843	834	826	822	652
55°	644	644	633	624	621	575
65°	437	433	428	418	414	431
75°	221	221	218	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°	141	225	252	232	232	126
135°	162	202	294	296	288	125
145°	173	195	254	308	318	108
155°	175	188	211	241	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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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.4	1394.4	1394.4	1394.4	1394.4
2.5°	1396.3	1395.4	1387.1	1393.5	1388.9
5°	1389.9	1388.9	1380.7	1386.2	1385.3
7.5°	1384.3	1377.0	1370.6	1375.2	1377.0
10°	1369.7	1360.5	1353.1	1363.2	1363.2
12.5°	1355.0	1343.0	1332.9	1345.8	1342.1
15°	1326.5	1321.0	1312.7	1319.2	1316.4
17.5°	1296.2	1296.2	1288.0	1291.6	1288.9
20°	1268.7	1266.8	1257.7	1261.3	1255.8
22.5°	1232.9	1232.9	1222.8	1225.5	1223.7
25°	1202.6	1194.3	1187.9	1188.8	1187.9
27.5°	1162.2	1157.6	1149.3	1151.2	1148.4
30°	1122.7	1116.3	1108.0	1110.8	1104.4
32.5°	1080.5	1075.9	1065.8	1064.9	1064.0
35°	1036.4	1032.8	1024.5	1016.2	1011.6
37.5°	989.6	988.7	974.9	971.2	966.7
40°	940.0	941.0	929.9	923.5	918.0
42.5°	894.1	890.5	883.1	874.9	873.9
45°	844.6	842.7	833.5	826.2	821.6
47.5°	797.7	795.0	785.8	777.5	770.2
50°	743.6	745.4	735.3	726.1	722.5
52.5°	694.9	696.8	685.7	675.6	672.0
55°	643.5	644.4	633.4	624.2	620.6
57.5°	591.2	592.1	582.9	574.7	570.1
60°	541.6	538.9	532.4	522.3	517.8
62.5°	488.4	488.4	479.2	470.9	470.9
65°	437.0	433.3	427.8	417.7	414.0
67.5°	382.8	380.1	373.6	366.3	367.2
70°	327.7	325.9	320.4	315.8	314.9
72.5°	277.2	273.6	269.9	265.3	263.5
75°	221.2	221.2	218.5	215.7	212.1
77.5°	172.6	170.7	168.9	166.2	164.3
80°	121.2	121.2	120.3	117.5	114.8
82.5°	76.2	78.0	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	17.4	17.4
90°	1.8	3.7	4.6	5.5	5.5
92.5°	12.9	13.8	17.4	17.4	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	57.8	45.0	36.7	35.8
102.5°	57.8	84.5	57.8	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	168.0	115.7	90.9	85.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.0	199.2	146.0	109.2	101.9
115°	110.2	221.2	174.4	134.0	120.3
117.5°	118.4	231.3	196.5	161.6	146.0
120°	127.6	235.0	213.9	190.0	174.4
122.5°	134.0	232.3	227.7	217.6	205.6
125°	141.4	224.9	251.5	232.3	232.3
127.5°	146.9	216.6	272.6	246.9	245.1
130°	152.4	209.3	288.3	256.1	258.0
132.5°	157.0	204.7	293.8	277.2	265.3
135°	161.6	202.0	293.8	296.5	288.3
137.5°	165.2	200.1	289.2	310.3	305.7
140°	168.9	198.3	280.9	314.9	320.4
142.5°	171.7	196.5	269.0	314.0	323.1
145°	172.6	194.6	254.3	307.5	318.5
147.5°	173.5	192.8	239.6	296.5	309.4
150°	174.4	191.9	227.7	279.1	296.5
152.5°	174.4	190.0	218.5	258.0	277.2
155°	175.3	188.2	211.1	241.4	255.2
157.5°	176.3	186.4	205.6	227.7	238.7
160°	177.2	184.5	200.1	217.6	224.9
162.5°	177.2	183.6	196.5	208.4	213.0
165°	177.2	182.7	192.8	201.0	203.8
167.5°	177.2	181.8	187.3	194.6	197.4
170°	178.1	180.8	183.6	189.1	191.9
172.5°	179.0	179.9	180.8	184.5	186.4
175°	178.1	179.0	179.0	180.8	180.8
177.5°	178.1	178.1	178.1	179.0	178.1
180°	177.2	177.2	177.2	177.2	177.2

(END OF REPORT)