

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: P274957

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 10/15/2018

Test Information

Test Method: LM-79-08
Report Number: P274957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/15/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L82765-1D-UNV-W2A-W-4 (5700K)
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 5700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5224.8 lumens
Efficiency: N/A
Efficacy: 100.3 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

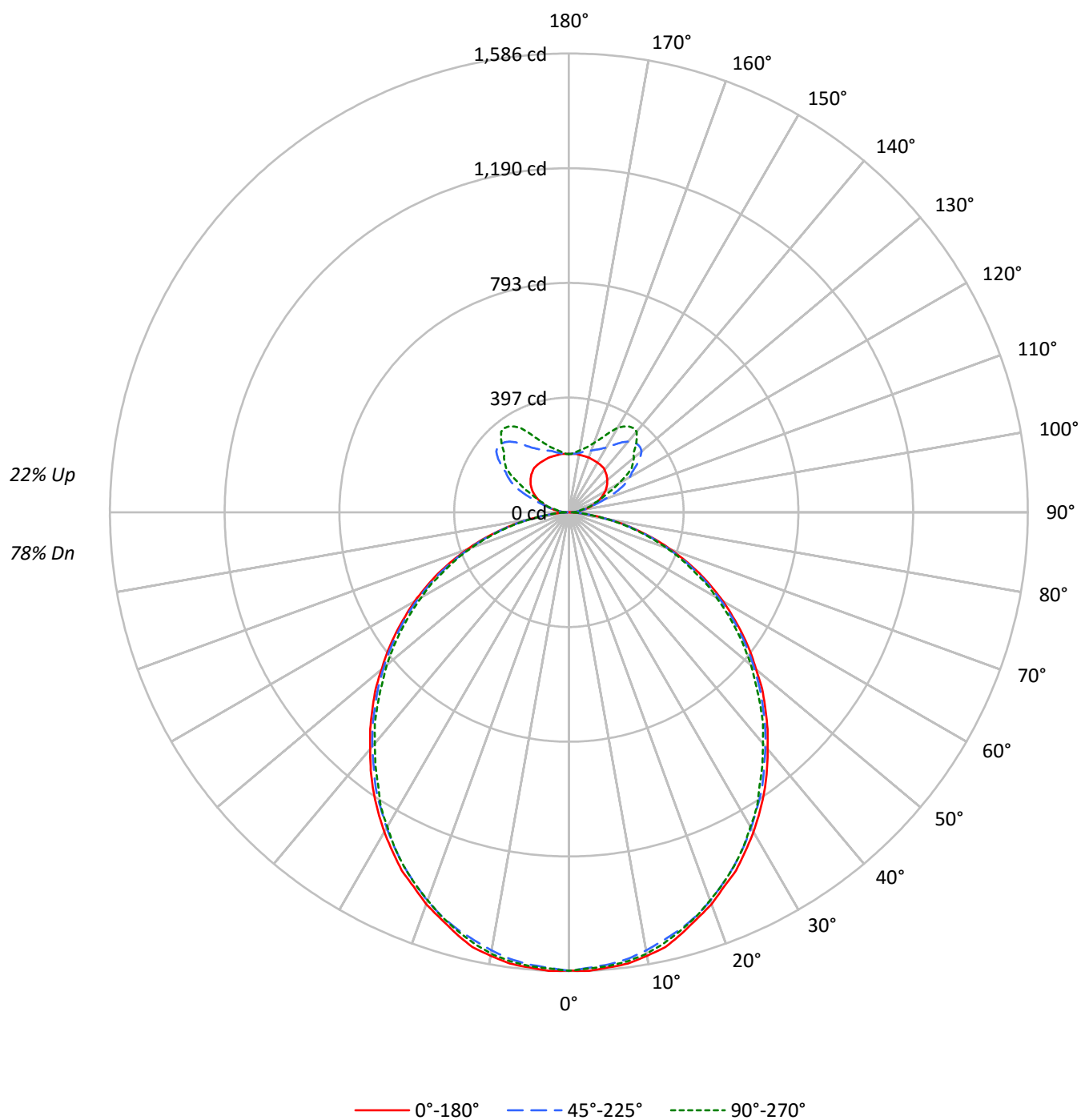
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12790	12790	12790
5°	12797	12712	12755
10°	12757	12603	12697
15°	12596	12466	12501
20°	12383	12276	12258
25°	12170	12022	12022
30°	11891	11735	11696
35°	11605	11472	11328
40°	11255	11135	10992
45°	10956	10812	10658
50°	10610	10492	10309
55°	10290	10130	9924
60°	9936	9767	9499
65°	9484	9284	8986
70°	8790	8592	8443
75°	7842	7742	7514
80°	6402	6351	6062
85°	3863	4150	4252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	2.9
10°-20°	422.3	8.1
20°-30°	623.4	11.9
30°-40°	728.0	13.9
40°-50°	731.4	14.0
50°-60°	643.8	12.3
60°-70°	479.3	9.2
70°-80°	262.5	5.0
80°-90°	59.8	1.1
90°-100°	30.0	0.6
100°-110°	94.7	1.8
110°-120°	179.1	3.4
120°-130°	225.7	4.3
130°-140°	221.8	4.2
140°-150°	178.2	3.4
150°-160°	113.7	2.2
160°-170°	62.1	1.2
170°-180°	19.7	0.4
0°-30°	1195.1	22.9
0°-40°	1923.1	36.8
0°-60°	3298.3	63.1
0°-90°	4099.8	78.5
90°-120°	303.8	5.8
90°-150°	929.5	17.8
90°-180°	1125.0	21.5
0°-180°	5224.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1579	1578	1569	1575	1574	150
15°	1507	1501	1492	1499	1496	425
25°	1366	1357	1350	1351	1350	628
35°	1178	1173	1164	1155	1149	736
45°	960	958	947	939	934	741
55°	731	732	720	709	705	654
65°	496	492	486	475	470	490
75°	251	251	248	245	241	268
85°	42	47	45	46	46	55
90°	2	4	5	6	6	4
95°	28	26	26	28	29	28
105°	79	126	80	80	74	83
115°	125	251	198	152	137	123
125°	161	256	286	264	264	143
135°	184	230	334	337	328	142
145°	196	221	289	349	362	123
155°	199	214	240	274	290	92
165°	201	208	219	228	232	57
175°	202	203	203	206	206	19
180°	201	201	201	201	201	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.3	1584.3	1584.3	1584.3	1584.3
2.5°	1586.4	1585.4	1576.0	1583.3	1578.1
5°	1579.1	1578.1	1568.7	1574.9	1573.9
7.5°	1572.8	1564.5	1557.2	1562.4	1564.5
10°	1556.2	1545.7	1537.4	1548.9	1548.9
12.5°	1539.5	1525.9	1514.4	1529.0	1524.9
15°	1507.1	1500.9	1491.5	1498.8	1495.7
17.5°	1472.7	1472.7	1463.3	1467.5	1464.4
20°	1441.4	1439.3	1428.9	1433.1	1426.8
22.5°	1400.7	1400.7	1389.3	1392.4	1390.3
25°	1366.3	1356.9	1349.6	1350.7	1349.6
27.5°	1320.4	1315.2	1305.8	1307.9	1304.8
30°	1275.6	1268.3	1258.9	1262.0	1254.7
32.5°	1227.6	1222.4	1210.9	1209.9	1208.8
35°	1177.5	1173.4	1164.0	1154.6	1149.4
37.5°	1124.4	1123.3	1107.7	1103.5	1098.3
40°	1068.0	1069.1	1056.6	1049.3	1043.0
42.5°	1015.9	1011.7	1003.4	994.0	992.9
45°	959.6	957.5	947.0	938.7	933.5
47.5°	906.4	903.2	892.8	883.4	875.1
50°	844.8	846.9	835.4	825.0	820.8
52.5°	789.6	791.6	779.1	767.6	763.5
55°	731.1	732.2	719.7	709.2	705.1
57.5°	671.7	672.7	662.3	652.9	647.7
60°	615.4	612.2	604.9	593.5	588.3
62.5°	554.9	554.9	544.4	535.1	535.1
65°	496.5	492.3	486.0	474.6	470.4
67.5°	434.9	431.8	424.5	416.2	417.2
70°	372.4	370.3	364.0	358.8	357.7
72.5°	315.0	310.8	306.6	301.4	299.3
75°	251.4	251.4	248.2	245.1	240.9
77.5°	196.1	194.0	191.9	188.8	186.7
80°	137.7	137.7	136.6	133.5	130.4
82.5°	86.6	88.7	86.6	85.5	85.5
85°	41.7	46.9	44.8	45.9	45.9
87.5°	13.6	15.6	18.8	19.8	19.8
90°	2.1	4.2	5.2	6.3	6.3
92.5°	14.6	15.6	19.8	19.8	20.9
95°	28.2	26.1	26.1	28.2	29.2
97.5°	40.7	41.7	33.4	33.4	34.4
100°	53.2	65.7	51.1	41.7	40.7
102.5°	65.7	96.0	65.7	57.4	52.2
105°	79.3	126.2	80.3	80.3	74.1
107.5°	90.7	154.4	103.3	84.5	85.5
110°	103.3	190.9	131.4	103.3	97.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	226.3	165.8	124.1	115.8
115°	125.2	251.4	198.2	152.3	136.6
117.5°	134.5	262.8	223.2	183.6	165.8
120°	145.0	267.0	243.0	215.9	198.2
122.5°	152.3	263.9	258.7	247.2	233.6
125°	160.6	255.5	285.8	263.9	263.9
127.5°	166.9	246.1	309.8	280.6	278.5
130°	173.1	237.8	327.5	291.0	293.1
132.5°	178.4	232.6	333.8	315.0	301.4
135°	183.6	229.5	333.8	336.9	327.5
137.5°	187.7	227.4	328.5	352.5	347.3
140°	191.9	225.3	319.2	357.7	364.0
142.5°	195.0	223.2	305.6	356.7	367.1
145°	196.1	221.1	288.9	349.4	361.9
147.5°	197.1	219.0	272.2	336.9	351.5
150°	198.2	218.0	258.7	317.1	336.9
152.5°	198.2	215.9	248.2	293.1	315.0
155°	199.2	213.8	239.9	274.3	290.0
157.5°	200.3	211.7	233.6	258.7	271.2
160°	201.3	209.6	227.4	247.2	255.5
162.5°	201.3	208.6	223.2	236.8	242.0
165°	201.3	207.6	219.0	228.4	231.5
167.5°	201.3	206.5	212.8	221.1	224.2
170°	202.3	205.5	208.6	214.9	218.0
172.5°	203.4	204.4	205.5	209.6	211.7
175°	202.3	203.4	203.4	205.5	205.5
177.5°	202.3	202.3	202.3	203.4	202.3
180°	201.3	201.3	201.3	201.3	201.3

(END OF REPORT)