

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: P274956

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274956
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5159.7 lumens
Efficiency: N/A
Efficacy: 99.4 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

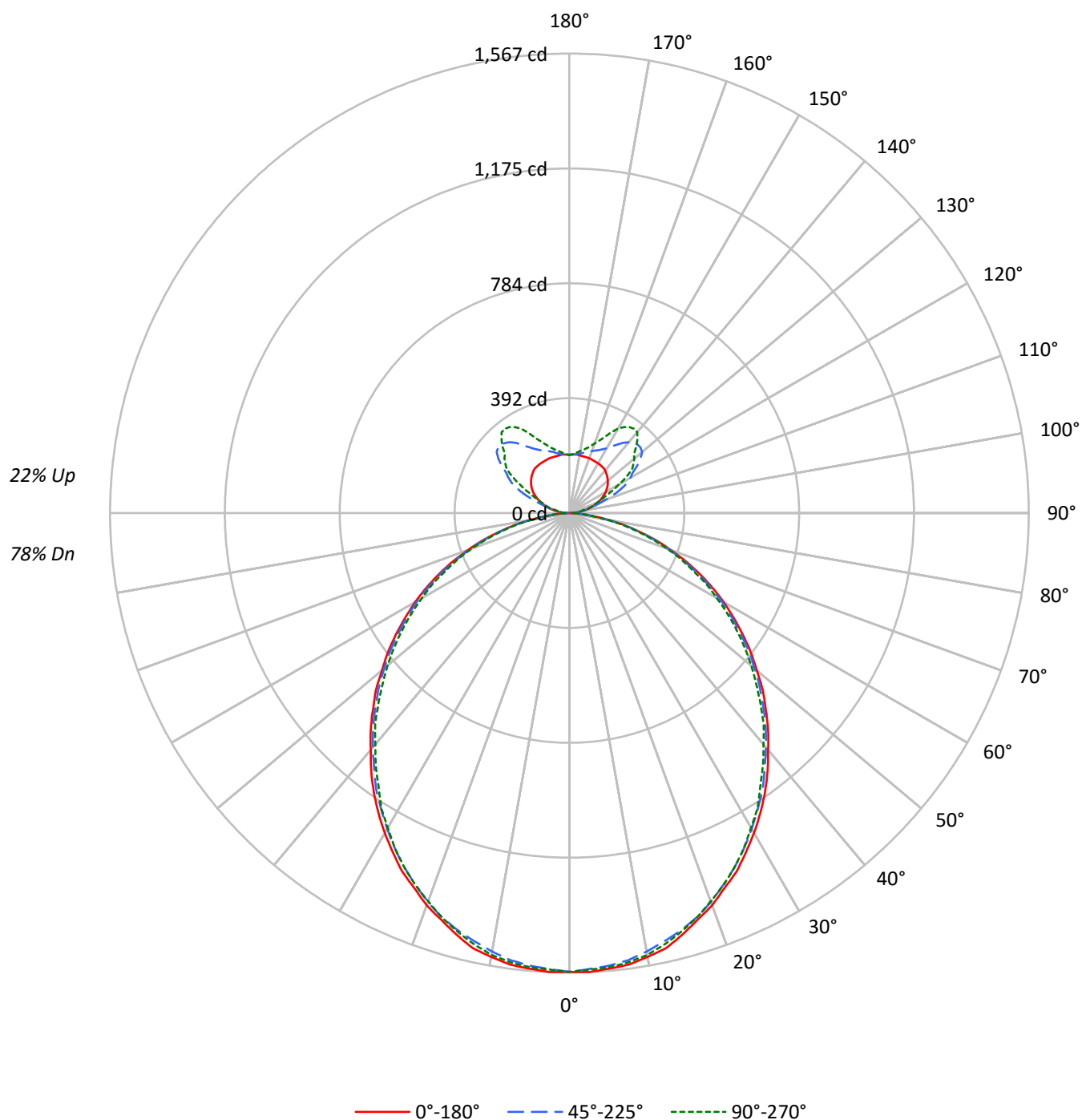
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	12631	12631	12631
5°	12637	12554	12596
10°	12598	12445	12539
15°	12440	12310	12344
20°	12229	12123	12105
25°	12019	11872	11872
30°	11743	11589	11551
35°	11461	11329	11187
40°	11115	10996	10855
45°	10819	10677	10525
50°	10478	10361	10181
55°	10162	10003	9800
60°	9812	9646	9379
65°	9366	9169	8873
70°	8679	8486	8339
75°	7742	7645	7420
80°	6323	6272	5988
85°	3816	4103	4196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	2.9
10°-20°	417.0	8.1
20°-30°	615.7	11.9
30°-40°	718.9	13.9
40°-50°	722.3	14.0
50°-60°	635.8	12.3
60°-70°	473.3	9.2
70°-80°	259.2	5.0
80°-90°	59.1	1.1
90°-100°	29.6	0.6
100°-110°	93.6	1.8
110°-120°	176.8	3.4
120°-130°	222.9	4.3
130°-140°	219.0	4.2
140°-150°	175.9	3.4
150°-160°	112.3	2.2
160°-170°	61.3	1.2
170°-180°	19.4	0.4
0°-30°	1180.2	22.9
0°-40°	1899.1	36.8
0°-60°	3257.2	63.1
0°-90°	4048.8	78.5
90°-120°	300.0	5.8
90°-150°	917.9	17.8
90°-180°	1111.0	21.5
0°-180°	5159.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1559	1558	1549	1555	1554	148
15°	1488	1482	1473	1480	1477	419
25°	1349	1340	1333	1334	1333	620
35°	1163	1159	1150	1140	1135	727
45°	948	946	935	927	922	732
55°	722	723	711	700	696	645
65°	490	486	480	469	464	484
75°	248	248	245	242	238	265
85°	41	46	44	45	45	55
90°	2	4	5	6	6	4
95°	28	26	26	28	29	28
105°	78	125	79	79	73	82
115°	124	248	196	150	135	122
125°	159	252	282	261	261	141
135°	181	227	330	333	323	140
145°	194	218	285	345	357	121
155°	197	211	237	271	286	91
165°	199	205	216	226	229	56
175°	200	201	201	203	203	19
180°	199	199	199	199	199	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.6	1564.6	1564.6	1564.6	1564.6
2.5°	1566.6	1565.6	1556.3	1563.5	1558.4
5°	1559.4	1558.4	1549.1	1555.3	1554.3
7.5°	1553.2	1545.0	1537.8	1542.9	1545.0
10°	1536.8	1526.5	1518.2	1529.6	1529.6
12.5°	1520.3	1506.9	1495.6	1510.0	1505.9
15°	1488.4	1482.2	1472.9	1480.1	1477.0
17.5°	1454.4	1454.4	1445.1	1449.2	1446.1
20°	1423.5	1421.4	1411.1	1415.2	1409.0
22.5°	1383.3	1383.3	1372.0	1375.1	1373.0
25°	1349.3	1340.0	1332.8	1333.9	1332.8
27.5°	1304.0	1298.8	1289.6	1291.6	1288.5
30°	1259.7	1252.5	1243.2	1246.3	1239.1
32.5°	1212.3	1207.2	1195.8	1194.8	1193.8
35°	1162.9	1158.8	1149.5	1140.2	1135.1
37.5°	1110.3	1109.3	1093.9	1089.7	1084.6
40°	1054.7	1055.8	1043.4	1036.2	1030.0
42.5°	1003.2	999.1	990.9	981.6	980.6
45°	947.6	945.5	935.2	927.0	921.9
47.5°	895.1	892.0	881.7	872.4	864.2
50°	834.3	836.4	825.0	814.7	810.6
52.5°	779.7	781.8	769.4	758.1	754.0
55°	722.0	723.1	710.7	700.4	696.3
57.5°	663.3	664.4	654.1	644.8	639.6
60°	607.7	604.6	597.4	586.1	580.9
62.5°	548.0	548.0	537.7	528.4	528.4
65°	490.3	486.2	480.0	468.7	464.5
67.5°	429.5	426.4	419.2	411.0	412.0
70°	367.7	365.7	359.5	354.3	353.3
72.5°	311.1	306.9	302.8	297.7	295.6
75°	248.2	248.2	245.1	242.1	237.9
77.5°	193.6	191.6	189.5	186.4	184.4
80°	136.0	136.0	134.9	131.8	128.8
82.5°	85.5	87.6	85.5	84.5	84.5
85°	41.2	46.4	44.3	45.3	45.3
87.5°	13.4	15.5	18.5	19.6	19.6
90°	2.1	4.1	5.2	6.2	6.2
92.5°	14.4	15.5	19.6	19.6	20.6
95°	27.8	25.8	25.8	27.8	28.8
97.5°	40.2	41.2	33.0	33.0	34.0
100°	52.5	64.9	50.5	41.2	40.2
102.5°	64.9	94.8	64.9	56.7	51.5
105°	78.3	124.6	79.3	79.3	73.1
107.5°	89.6	152.4	102.0	83.4	84.5
110°	102.0	188.5	129.8	102.0	95.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.3	223.5	163.8	122.6	114.3
115°	123.6	248.2	195.7	150.4	134.9
117.5°	132.9	259.6	220.4	181.3	163.8
120°	143.2	263.7	240.0	213.2	195.7
122.5°	150.4	260.6	255.4	244.1	230.7
125°	158.6	252.4	282.2	260.6	260.6
127.5°	164.8	243.1	305.9	277.1	275.0
130°	171.0	234.8	323.4	287.4	289.4
132.5°	176.1	229.7	329.6	311.1	297.7
135°	181.3	226.6	329.6	332.7	323.4
137.5°	185.4	224.5	324.5	348.1	343.0
140°	189.5	222.5	315.2	353.3	359.5
142.5°	192.6	220.4	301.8	352.3	362.6
145°	193.6	218.4	285.3	345.1	357.4
147.5°	194.7	216.3	268.8	332.7	347.1
150°	195.7	215.3	255.4	313.1	332.7
152.5°	195.7	213.2	245.1	289.4	311.1
155°	196.7	211.2	236.9	270.9	286.3
157.5°	197.8	209.1	230.7	255.4	267.8
160°	198.8	207.0	224.5	244.1	252.4
162.5°	198.8	206.0	220.4	233.8	239.0
165°	198.8	205.0	216.3	225.6	228.7
167.5°	198.8	203.9	210.1	218.4	221.5
170°	199.8	202.9	206.0	212.2	215.3
172.5°	200.9	201.9	202.9	207.0	209.1
175°	199.8	200.9	200.9	202.9	202.9
177.5°	199.8	199.8	199.8	200.9	199.8
180°	198.8	198.8	198.8	198.8	198.8

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