

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: P274945

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)
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-DLED-W-4 (3500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

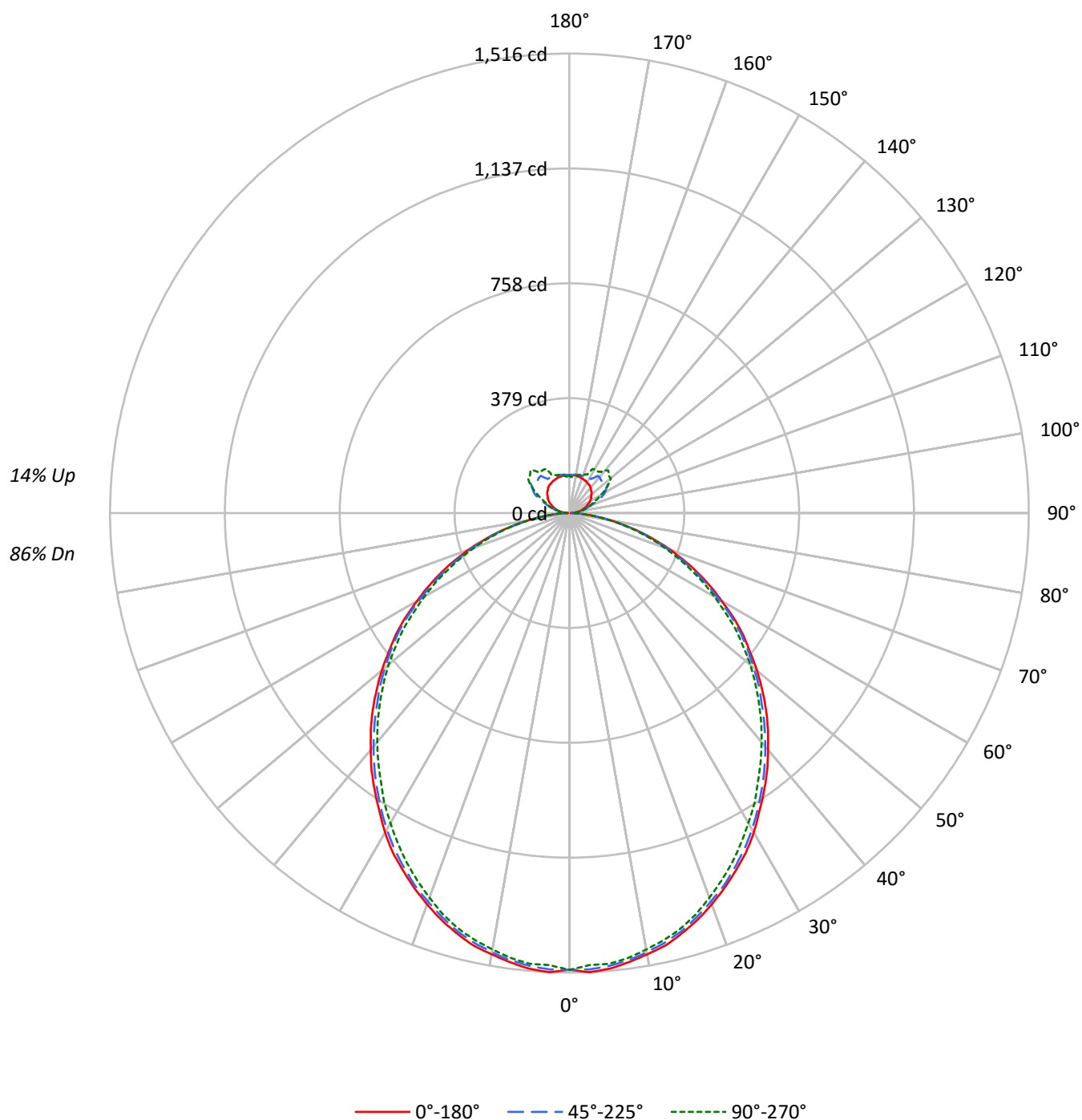
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	104	104	104		96	96	96		90
1	106	101	97	94	102	98	94	91	91	88	85		85	83	80		79
2	97	89	82	77	93	86	80	75	80	75	71		75	71	67		70
3	88	78	70	64	85	75	68	62	71	65	60		66	61	57		62
4	81	69	61	54	77	67	59	53	63	56	51		59	53	49		55
5	74	62	53	47	71	60	52	46	56	49	44		53	47	42		50
6	69	56	47	41	66	54	46	40	51	44	39		48	42	37		45
7	64	51	42	36	61	49	41	36	46	39	34		44	38	33		41
8	59	46	38	32	57	45	37	32	42	36	31		40	34	30		38
9	55	42	34	29	53	41	34	29	39	32	28		37	31	27		35
10	52	39	31	26	50	38	31	26	36	30	25		34	29	24		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12165	12165	12165
5°	12231	12154	12097
10°	12119	12061	11983
15°	11998	11939	11860
20°	11802	11721	11599
25°	11581	11496	11327
30°	11345	11234	11012
35°	11033	10916	10682
40°	10746	10595	10395
45°	10475	10258	10095
50°	10149	9971	9791
55°	9835	9702	9434
60°	9365	9210	8942
65°	8944	8718	8445
70°	8360	8134	7855
75°	7561	7414	7193
80°	6411	6299	6188
85°	4844	5067	4844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.2
10°-20°	401.1	8.9
20°-30°	591.5	13.1
30°-40°	689.4	15.3
40°-50°	693.2	15.4
50°-60°	610.4	13.5
60°-70°	450.6	10.0
70°-80°	249.7	5.5
80°-90°	65.0	1.4
90°-100°	23.1	0.5
100°-110°	59.6	1.3
110°-120°	96.7	2.1
120°-130°	120.8	2.7
130°-140°	113.5	2.5
140°-150°	89.5	2.0
150°-160°	61.6	1.4
160°-170°	36.4	0.8
170°-180°	12.0	0.3
0°-30°	1134.5	25.2
0°-40°	1824.0	40.5
0°-60°	3127.6	69.4
0°-90°	3892.9	86.4
90°-120°	179.4	4.0
90°-150°	503.2	11.2
90°-180°	613.0	13.6
0°-180°	4506.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1509	1493	1500	1495	1493	143
15°	1436	1421	1428	1421	1419	405
25°	1300	1288	1291	1274	1272	599
35°	1120	1110	1108	1089	1084	701
45°	918	908	898	887	884	707
55°	699	692	689	675	670	623
65°	468	464	456	447	442	463
75°	242	240	238	231	231	257
85°	52	55	55	52	52	61
90°	5	10	10	10	10	6
95°	17	19	21	21	21	17
105°	45	62	55	59	55	48
115°	67	107	109	95	93	67
125°	88	121	150	154	152	78
135°	102	114	150	185	183	79
145°	114	119	143	164	166	71
155°	119	124	131	140	140	55
165°	124	124	131	133	131	35
175°	126	126	126	126	121	12
180°	124	124	124	124	124	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.9	1506.9	1506.9	1506.9	1506.9
2.5°	1516.4	1499.8	1506.9	1502.2	1492.7
5°	1509.3	1492.7	1499.8	1495.0	1492.7
7.5°	1495.0	1480.8	1487.9	1483.2	1480.8
10°	1478.4	1464.1	1471.3	1464.1	1461.8
12.5°	1461.8	1445.1	1452.3	1442.8	1442.8
15°	1435.6	1421.4	1428.5	1421.4	1419.0
17.5°	1407.1	1392.8	1397.6	1390.5	1388.1
20°	1373.8	1359.6	1364.3	1354.8	1350.1
22.5°	1338.2	1326.3	1331.0	1314.4	1312.0
25°	1300.1	1288.3	1290.6	1274.0	1271.6
27.5°	1262.1	1245.5	1250.2	1231.2	1226.5
30°	1217.0	1202.7	1205.1	1186.1	1181.3
32.5°	1167.0	1157.5	1157.5	1138.5	1136.1
35°	1119.5	1110.0	1107.6	1088.6	1083.9
37.5°	1072.0	1060.1	1057.7	1036.3	1036.3
40°	1019.7	1010.2	1005.4	988.8	986.4
42.5°	969.8	957.9	953.1	936.5	936.5
45°	917.5	908.0	898.5	886.6	884.2
47.5°	862.8	853.3	848.5	834.3	831.9
50°	808.1	801.0	793.9	782.0	779.6
52.5°	751.1	746.3	741.6	729.7	722.6
55°	698.8	691.7	689.3	675.0	670.3
57.5°	641.8	634.6	632.2	615.6	608.5
60°	580.0	572.8	570.4	556.2	553.8
62.5°	525.3	518.2	513.4	503.9	499.1
65°	468.2	463.5	456.4	446.9	442.1
67.5°	411.2	406.4	399.3	392.2	387.4
70°	354.2	349.4	344.6	335.1	332.8
72.5°	297.1	292.4	287.6	282.8	282.8
75°	242.4	240.1	237.7	230.6	230.6
77.5°	187.8	185.4	183.0	180.6	180.6
80°	137.9	137.9	135.5	133.1	133.1
82.5°	92.7	92.7	92.7	90.3	90.3
85°	52.3	54.7	54.7	52.3	52.3
87.5°	21.4	21.4	21.4	21.4	21.4
90°	4.8	9.5	9.5	9.5	9.5
92.5°	9.5	11.9	14.3	16.6	14.3
95°	16.6	19.0	21.4	21.4	21.4
97.5°	26.1	28.5	28.5	28.5	28.5
100°	33.3	38.0	35.7	38.0	35.7
102.5°	40.4	49.9	49.9	45.2	45.2
105°	45.2	61.8	54.7	59.4	54.7
107.5°	49.9	76.1	64.2	66.6	68.9
110°	57.0	85.6	78.4	71.3	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.8	104.6	92.7	83.2	80.8
115°	66.6	107.0	109.3	95.1	92.7
117.5°	73.7	107.0	123.6	111.7	107.0
120°	78.4	114.1	135.5	126.0	121.2
122.5°	83.2	118.8	142.6	142.6	137.9
125°	87.9	121.2	149.7	154.5	152.1
127.5°	90.3	114.1	161.6	168.8	166.4
130°	95.1	109.3	159.2	171.1	178.3
132.5°	99.8	111.7	154.5	173.5	178.3
135°	102.2	114.1	149.7	185.4	183.0
137.5°	104.6	116.5	152.1	178.3	190.1
140°	109.3	116.5	154.5	168.8	183.0
142.5°	111.7	118.8	154.5	161.6	171.1
145°	114.1	118.8	142.6	164.0	166.4
147.5°	114.1	121.2	133.1	166.4	166.4
150°	116.5	121.2	133.1	166.4	166.4
152.5°	118.8	123.6	130.7	145.0	164.0
155°	118.8	123.6	130.7	140.2	140.2
157.5°	121.2	123.6	130.7	137.9	137.9
160°	121.2	123.6	130.7	135.5	133.1
162.5°	123.6	123.6	128.4	133.1	130.7
165°	123.6	123.6	130.7	133.1	130.7
167.5°	123.6	126.0	128.4	130.7	128.4
170°	126.0	126.0	128.4	128.4	126.0
172.5°	126.0	126.0	128.4	126.0	123.6
175°	126.0	126.0	126.0	126.0	121.2
177.5°	126.0	123.6	126.0	123.6	118.8
180°	123.6	123.6	123.6	123.6	123.6

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