

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: P274943

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274943
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 (2700K)
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 2700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4234.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

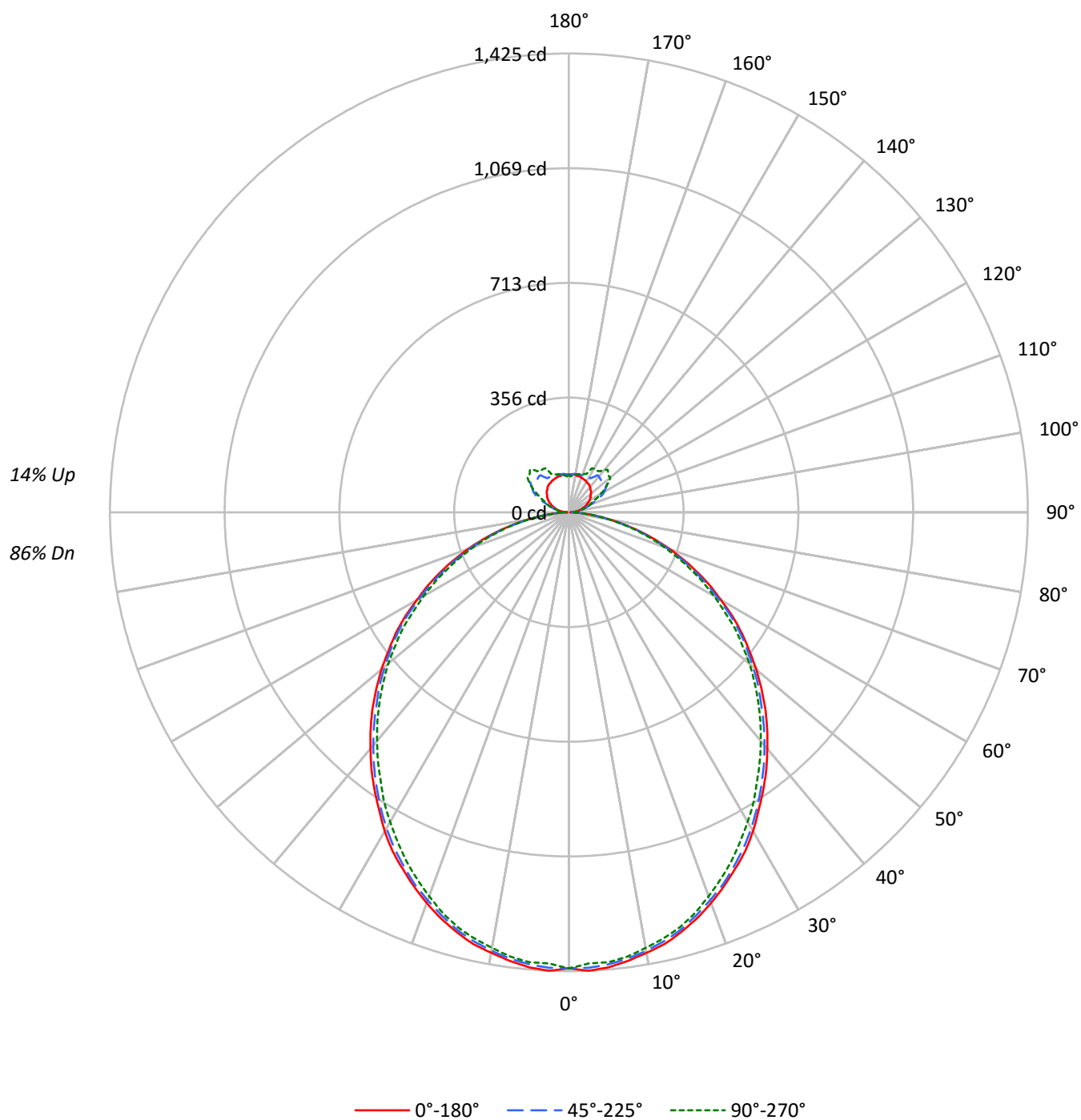
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11430	11430	11430
5°	11493	11420	11366
10°	11387	11332	11259
15°	11274	11218	11143
20°	11090	11013	10898
25°	10881	10802	10643
30°	10660	10555	10347
35°	10367	10256	10037
40°	10097	9956	9767
45°	9842	9638	9485
50°	9536	9368	9200
55°	9241	9116	8864
60°	8798	8654	8402
65°	8405	8191	7935
70°	7855	7643	7381
75°	7105	6965	6756
80°	6020	5918	5816
85°	4548	4761	4548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.2
10°-20°	376.8	8.9
20°-30°	555.8	13.1
30°-40°	647.8	15.3
40°-50°	651.3	15.4
50°-60°	573.6	13.5
60°-70°	423.4	10.0
70°-80°	234.6	5.5
80°-90°	61.1	1.4
90°-100°	21.7	0.5
100°-110°	56.0	1.3
110°-120°	90.9	2.1
120°-130°	113.5	2.7
130°-140°	106.6	2.5
140°-150°	84.1	2.0
150°-160°	57.9	1.4
160°-170°	34.2	0.8
170°-180°	11.3	0.3
0°-30°	1066.0	25.2
0°-40°	1713.9	40.5
0°-60°	2938.8	69.4
0°-90°	3657.8	86.4
90°-120°	168.6	4.0
90°-150°	472.8	11.2
90°-180°	576.0	13.6
0°-180°	4234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1418	1402	1409	1405	1402	134
15°	1349	1336	1342	1336	1333	380
25°	1222	1210	1213	1197	1195	563
35°	1052	1043	1041	1023	1018	658
45°	862	853	844	833	831	664
55°	657	650	648	634	630	585
65°	440	436	429	420	415	435
75°	228	226	223	217	217	241
85°	49	51	51	49	49	57
90°	4	9	9	9	9	5
95°	16	18	20	20	20	16
105°	42	58	51	56	51	45
115°	62	100	103	89	87	63
125°	83	114	141	145	143	73
135°	96	107	141	174	172	74
145°	107	112	134	154	156	67
155°	112	116	123	132	132	52
165°	116	116	123	125	123	33
175°	118	118	118	118	114	11
180°	116	116	116	116	116	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.9	1415.9	1415.9	1415.9	1415.9
2.5°	1424.9	1409.2	1415.9	1411.5	1402.5
5°	1418.2	1402.5	1409.2	1404.8	1402.5
7.5°	1404.8	1391.4	1398.1	1393.6	1391.4
10°	1389.1	1375.7	1382.4	1375.7	1373.5
12.5°	1373.5	1357.9	1364.6	1355.6	1355.6
15°	1348.9	1335.5	1342.2	1335.5	1333.3
17.5°	1322.1	1308.7	1313.2	1306.5	1304.3
20°	1290.9	1277.5	1281.9	1273.0	1268.5
22.5°	1257.4	1246.2	1250.7	1235.0	1232.8
25°	1221.6	1210.5	1212.7	1197.1	1194.8
27.5°	1185.9	1170.3	1174.7	1156.9	1152.4
30°	1143.5	1130.1	1132.3	1114.4	1110.0
32.5°	1096.6	1087.6	1087.6	1069.8	1067.5
35°	1051.9	1043.0	1040.7	1022.9	1018.4
37.5°	1007.2	996.1	993.8	973.7	973.7
40°	958.1	949.2	944.7	929.1	926.8
42.5°	911.2	900.0	895.6	879.9	879.9
45°	862.1	853.1	844.2	833.0	830.8
47.5°	810.7	801.8	797.3	783.9	781.7
50°	759.3	752.6	745.9	734.8	732.5
52.5°	705.7	701.3	696.8	685.6	678.9
55°	656.6	649.9	647.7	634.3	629.8
57.5°	603.0	596.3	594.1	578.4	571.7
60°	544.9	538.2	536.0	522.6	520.4
62.5°	493.6	486.9	482.4	473.5	469.0
65°	440.0	435.5	428.8	419.9	415.4
67.5°	386.4	381.9	375.2	368.5	364.0
70°	332.8	328.3	323.8	314.9	312.7
72.5°	279.2	274.7	270.2	265.8	265.8
75°	227.8	225.6	223.3	216.6	216.6
77.5°	176.4	174.2	172.0	169.7	169.7
80°	129.5	129.5	127.3	125.1	125.1
82.5°	87.1	87.1	87.1	84.9	84.9
85°	49.1	51.4	51.4	49.1	49.1
87.5°	20.1	20.1	20.1	20.1	20.1
90°	4.5	8.9	8.9	8.9	8.9
92.5°	8.9	11.2	13.4	15.6	13.4
95°	15.6	17.9	20.1	20.1	20.1
97.5°	24.6	26.8	26.8	26.8	26.8
100°	31.3	35.7	33.5	35.7	33.5
102.5°	38.0	46.9	46.9	42.4	42.4
105°	42.4	58.1	51.4	55.8	51.4
107.5°	46.9	71.5	60.3	62.5	64.8
110°	53.6	80.4	73.7	67.0	69.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.1	98.3	87.1	78.2	75.9
115°	62.5	100.5	102.7	89.3	87.1
117.5°	69.2	100.5	116.1	105.0	100.5
120°	73.7	107.2	127.3	118.4	113.9
122.5°	78.2	111.7	134.0	134.0	129.5
125°	82.6	113.9	140.7	145.2	142.9
127.5°	84.9	107.2	151.9	158.6	156.3
130°	89.3	102.7	149.6	160.8	167.5
132.5°	93.8	105.0	145.2	163.0	167.5
135°	96.0	107.2	140.7	174.2	172.0
137.5°	98.3	109.4	142.9	167.5	178.7
140°	102.7	109.4	145.2	158.6	172.0
142.5°	105.0	111.7	145.2	151.9	160.8
145°	107.2	111.7	134.0	154.1	156.3
147.5°	107.2	113.9	125.1	156.3	156.3
150°	109.4	113.9	125.1	156.3	156.3
152.5°	111.7	116.1	122.8	136.2	154.1
155°	111.7	116.1	122.8	131.8	131.8
157.5°	113.9	116.1	122.8	129.5	129.5
160°	113.9	116.1	122.8	127.3	125.1
162.5°	116.1	116.1	120.6	125.1	122.8
165°	116.1	116.1	122.8	125.1	122.8
167.5°	116.1	118.4	120.6	122.8	120.6
170°	118.4	118.4	120.6	120.6	118.4
172.5°	118.4	118.4	120.6	118.4	116.1
175°	118.4	118.4	118.4	118.4	113.9
177.5°	118.4	116.1	118.4	116.1	111.7
180°	116.1	116.1	116.1	116.1	116.1

(END OF REPORT)