

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: P274848

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274848
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-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1775.7 lumens
Efficiency: N/A
Efficacy: 105.1 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

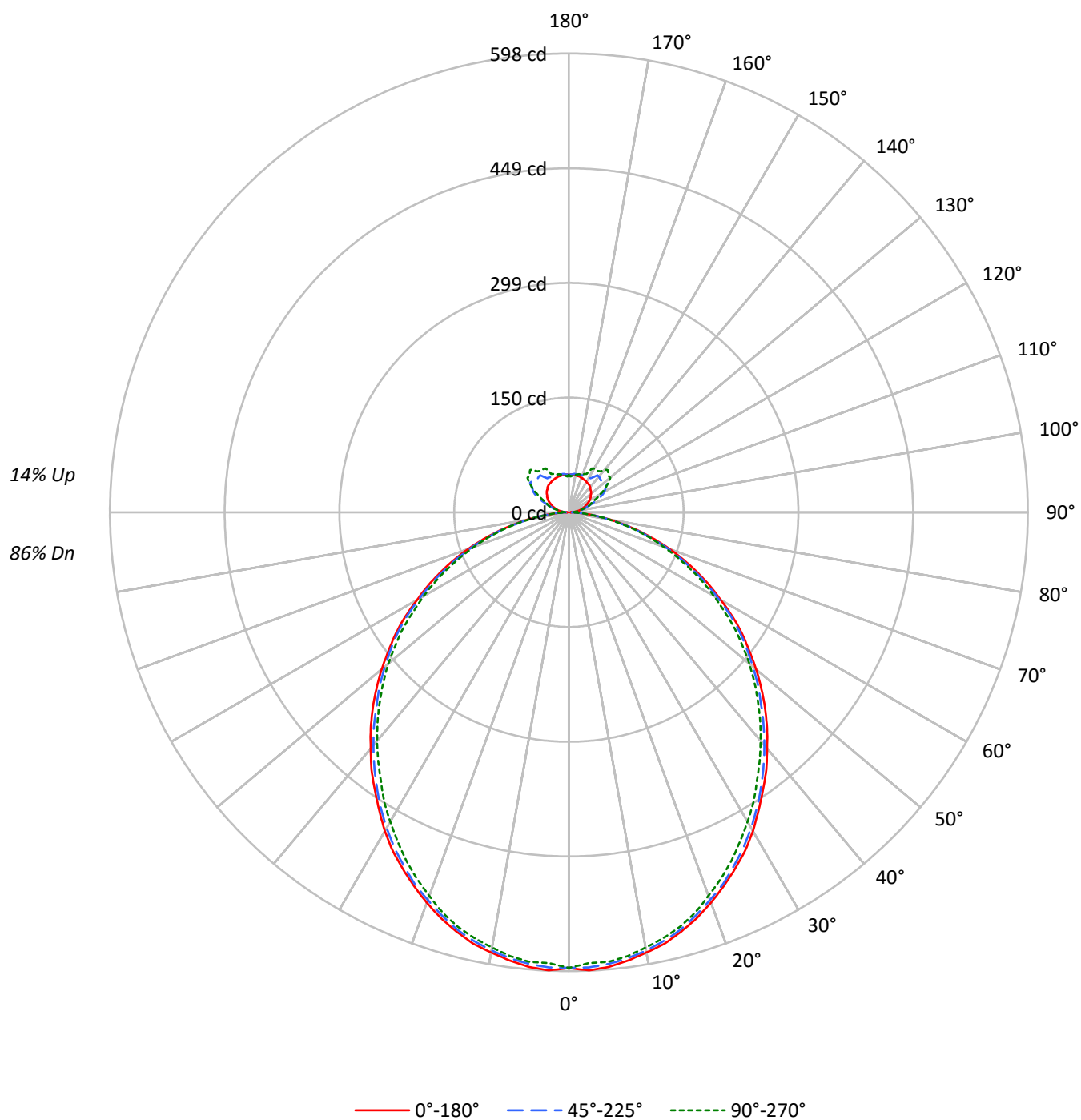
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274848

CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P274848

CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)

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°	4794	4794	4794
5°	4820	4789	4767
10°	4776	4753	4722
15°	4728	4705	4674
20°	4651	4619	4570
25°	4564	4530	4464
30°	4471	4427	4339
35°	4348	4302	4209
40°	4234	4175	4096
45°	4127	4043	3978
50°	4000	3929	3858
55°	3876	3823	3717
60°	3689	3630	3523
65°	3524	3435	3328
70°	3295	3205	3094
75°	2979	2923	2835
80°	2524	2483	2441
85°	1908	1991	1908



TEST NUMBER: P274848

CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.2
10°-20°	158.0	8.9
20°-30°	233.1	13.1
30°-40°	271.7	15.3
40°-50°	273.2	15.4
50°-60°	240.6	13.5
60°-70°	177.6	10.0
70°-80°	98.4	5.5
80°-90°	25.6	1.4
90°-100°	9.1	0.5
100°-110°	23.5	1.3
110°-120°	38.1	2.1
120°-130°	47.6	2.7
130°-140°	44.7	2.5
140°-150°	35.3	2.0
150°-160°	24.3	1.4
160°-170°	14.3	0.8
170°-180°	4.7	0.3
0°-30°	447.1	25.2
0°-40°	718.8	40.5
0°-60°	1232.5	69.4
0°-90°	1534.1	86.4
90°-120°	70.7	4.0
90°-150°	198.3	11.2
90°-180°	242.0	13.6
0°-180°	1775.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	595	588	591	589	588	56
15°	566	560	563	560	559	159
25°	512	508	509	502	501	236
35°	441	437	436	429	427	276
45°	362	358	354	349	348	279
55°	275	273	272	266	264	245
65°	184	183	180	176	174	182
75°	96	95	94	91	91	101
85°	21	22	22	21	21	24
90°	2	4	4	4	4	2
95°	7	8	8	8	8	7
105°	18	24	22	23	22	19
115°	26	42	43	38	36	26
125°	35	48	59	61	60	31
135°	40	45	59	73	72	31
145°	45	47	56	65	66	28
155°	47	49	52	55	55	22
165°	49	49	52	52	52	14
175°	50	50	50	50	48	5
180°	49	49	49	49	49	



TEST NUMBER: P274848

CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	593.8	593.8	593.8	593.8	593.8
2.5°	597.6	591.0	593.8	592.0	588.2
5°	594.8	588.2	591.0	589.2	588.2
7.5°	589.2	583.5	586.3	584.5	583.5
10°	582.6	577.0	579.8	577.0	576.0
12.5°	576.0	569.5	572.3	568.5	568.5
15°	565.7	560.1	562.9	560.1	559.2
17.5°	554.5	548.9	550.8	547.9	547.0
20°	541.4	535.8	537.6	533.9	532.0
22.5°	527.3	522.7	524.5	518.0	517.0
25°	512.4	507.7	508.6	502.0	501.1
27.5°	497.4	490.8	492.7	485.2	483.3
30°	479.6	473.9	474.9	467.4	465.5
32.5°	459.9	456.2	456.2	448.7	447.7
35°	441.2	437.4	436.5	429.0	427.1
37.5°	422.4	417.7	416.8	408.4	408.4
40°	401.8	398.1	396.2	389.6	388.7
42.5°	382.2	377.5	375.6	369.0	369.0
45°	361.5	357.8	354.1	349.4	348.4
47.5°	340.0	336.3	334.4	328.8	327.8
50°	318.5	315.7	312.8	308.2	307.2
52.5°	296.0	294.1	292.2	287.6	284.7
55°	275.4	272.6	271.6	266.0	264.1
57.5°	252.9	250.1	249.2	242.6	239.8
60°	228.5	225.7	224.8	219.2	218.2
62.5°	207.0	204.2	202.3	198.6	196.7
65°	184.5	182.6	179.8	176.1	174.2
67.5°	162.0	160.2	157.4	154.5	152.7
70°	139.6	137.7	135.8	132.1	131.1
72.5°	117.1	115.2	113.3	111.5	111.5
75°	95.5	94.6	93.7	90.9	90.9
77.5°	74.0	73.1	72.1	71.2	71.2
80°	54.3	54.3	53.4	52.5	52.5
82.5°	36.5	36.5	36.5	35.6	35.6
85°	20.6	21.5	21.5	20.6	20.6
87.5°	8.4	8.4	8.4	8.4	8.4
90°	1.9	3.7	3.7	3.7	3.7
92.5°	3.7	4.7	5.6	6.6	5.6
95°	6.6	7.5	8.4	8.4	8.4
97.5°	10.3	11.2	11.2	11.2	11.2
100°	13.1	15.0	14.0	15.0	14.0
102.5°	15.9	19.7	19.7	17.8	17.8
105°	17.8	24.4	21.5	23.4	21.5
107.5°	19.7	30.0	25.3	26.2	27.2
110°	22.5	33.7	30.9	28.1	29.0



TEST NUMBER: P274848

CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.4	41.2	36.5	32.8	31.8
115°	26.2	42.1	43.1	37.5	36.5
117.5°	29.0	42.1	48.7	44.0	42.1
120°	30.9	45.0	53.4	49.6	47.8
122.5°	32.8	46.8	56.2	56.2	54.3
125°	34.7	47.8	59.0	60.9	59.9
127.5°	35.6	45.0	63.7	66.5	65.6
130°	37.5	43.1	62.8	67.4	70.2
132.5°	39.3	44.0	60.9	68.4	70.2
135°	40.3	45.0	59.0	73.1	72.1
137.5°	41.2	45.9	59.9	70.2	74.9
140°	43.1	45.9	60.9	66.5	72.1
142.5°	44.0	46.8	60.9	63.7	67.4
145°	45.0	46.8	56.2	64.6	65.6
147.5°	45.0	47.8	52.5	65.6	65.6
150°	45.9	47.8	52.5	65.6	65.6
152.5°	46.8	48.7	51.5	57.1	64.6
155°	46.8	48.7	51.5	55.3	55.3
157.5°	47.8	48.7	51.5	54.3	54.3
160°	47.8	48.7	51.5	53.4	52.5
162.5°	48.7	48.7	50.6	52.5	51.5
165°	48.7	48.7	51.5	52.5	51.5
167.5°	48.7	49.6	50.6	51.5	50.6
170°	49.6	49.6	50.6	50.6	49.6
172.5°	49.6	49.6	50.6	49.6	48.7
175°	49.6	49.6	49.6	49.6	47.8
177.5°	49.6	48.7	49.6	48.7	46.8
180°	48.7	48.7	48.7	48.7	48.7

(END OF REPORT)