

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: P274847

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274847
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 (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: 1726.8 lumens
Efficiency: N/A
Efficacy: 101.6 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

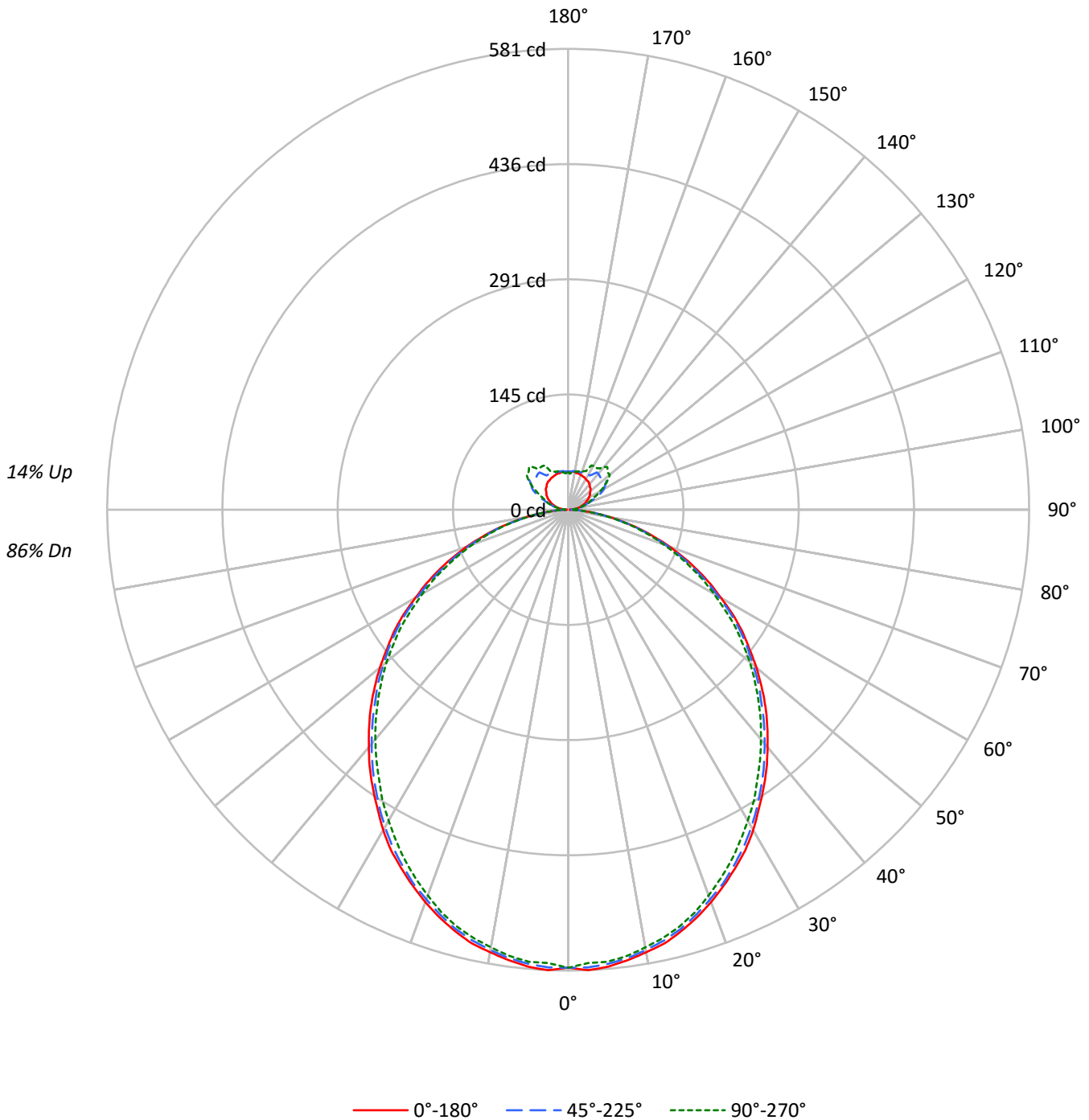
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	86
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54	52
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32	30
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4662	4662	4662
5°	4687	4658	4635
10°	4645	4622	4592
15°	4598	4575	4545
20°	4523	4491	4445
25°	4438	4406	4341
30°	4348	4305	4220
35°	4228	4184	4094
40°	4118	4060	3984
45°	4014	3931	3868
50°	3890	3821	3753
55°	3769	3717	3616
60°	3588	3529	3426
65°	3427	3341	3236
70°	3203	3118	3009
75°	2898	2842	2757
80°	2455	2413	2371
85°	1853	1936	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	3.2
10°-20°	153.7	8.9
20°-30°	226.7	13.1
30°-40°	264.2	15.3
40°-50°	265.6	15.4
50°-60°	233.9	13.5
60°-70°	172.7	10.0
70°-80°	95.7	5.5
80°-90°	24.9	1.4
90°-100°	8.9	0.5
100°-110°	22.8	1.3
110°-120°	37.1	2.1
120°-130°	46.3	2.7
130°-140°	43.5	2.5
140°-150°	34.3	2.0
150°-160°	23.6	1.4
160°-170°	13.9	0.8
170°-180°	4.6	0.3
0°-30°	434.8	25.2
0°-40°	699.0	40.5
0°-60°	1198.6	69.4
0°-90°	1491.8	86.4
90°-120°	68.7	4.0
90°-150°	192.8	11.2
90°-180°	235.0	13.6
0°-180°	1726.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	578	572	575	573	572	55
15°	550	545	547	545	544	155
25°	498	494	495	488	487	230
35°	429	425	424	417	415	269
45°	352	348	344	340	339	271
55°	268	265	264	259	257	239
65°	179	178	175	171	169	177
75°	93	92	91	88	88	98
85°	20	21	21	20	20	23
90°	2	4	4	4	4	2
95°	6	7	8	8	8	7
105°	17	24	21	23	21	18
115°	26	41	42	36	36	26
125°	34	46	57	59	58	30
135°	39	44	57	71	70	30
145°	44	46	55	63	64	27
155°	46	47	50	54	54	21
165°	47	47	50	51	50	13
175°	48	48	48	48	46	5
180°	47	47	47	47	47	



TEST NUMBER: P274847

CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.5	577.5	577.5	577.5	577.5
2.5°	581.1	574.8	577.5	575.7	572.0
5°	578.4	572.0	574.8	572.9	572.0
7.5°	572.9	567.5	570.2	568.4	567.5
10°	566.6	561.1	563.8	561.1	560.2
12.5°	560.2	553.8	556.5	552.9	552.9
15°	550.2	544.7	547.4	544.7	543.8
17.5°	539.2	533.8	535.6	532.9	531.9
20°	526.5	521.0	522.8	519.2	517.4
22.5°	512.8	508.3	510.1	503.7	502.8
25°	498.2	493.7	494.6	488.2	487.3
27.5°	483.7	477.3	479.1	471.8	470.0
30°	466.4	460.9	461.8	454.5	452.7
32.5°	447.2	443.6	443.6	436.3	435.4
35°	429.0	425.4	424.5	417.2	415.4
37.5°	410.8	406.2	405.3	397.1	397.1
40°	390.8	387.1	385.3	378.9	378.0
42.5°	371.6	367.1	365.3	358.9	358.9
45°	351.6	347.9	344.3	339.7	338.8
47.5°	330.6	327.0	325.2	319.7	318.8
50°	309.7	307.0	304.2	299.7	298.8
52.5°	287.8	286.0	284.2	279.6	276.9
55°	267.8	265.1	264.1	258.7	256.9
57.5°	245.9	243.2	242.3	235.9	233.2
60°	222.2	219.5	218.6	213.1	212.2
62.5°	201.3	198.6	196.7	193.1	191.3
65°	179.4	177.6	174.9	171.2	169.4
67.5°	157.6	155.8	153.0	150.3	148.5
70°	135.7	133.9	132.1	128.4	127.5
72.5°	113.9	112.0	110.2	108.4	108.4
75°	92.9	92.0	91.1	88.4	88.4
77.5°	72.0	71.0	70.1	69.2	69.2
80°	52.8	52.8	51.9	51.0	51.0
82.5°	35.5	35.5	35.5	34.6	34.6
85°	20.0	20.9	20.9	20.0	20.0
87.5°	8.2	8.2	8.2	8.2	8.2
90°	1.8	3.6	3.6	3.6	3.6
92.5°	3.6	4.6	5.5	6.4	5.5
95°	6.4	7.3	8.2	8.2	8.2
97.5°	10.0	10.9	10.9	10.9	10.9
100°	12.8	14.6	13.7	14.6	13.7
102.5°	15.5	19.1	19.1	17.3	17.3
105°	17.3	23.7	20.9	22.8	20.9
107.5°	19.1	29.1	24.6	25.5	26.4
110°	21.9	32.8	30.1	27.3	28.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.7	40.1	35.5	31.9	31.0
115°	25.5	41.0	41.9	36.4	35.5
117.5°	28.2	41.0	47.4	42.8	41.0
120°	30.1	43.7	51.9	48.3	46.5
122.5°	31.9	45.5	54.7	54.7	52.8
125°	33.7	46.5	57.4	59.2	58.3
127.5°	34.6	43.7	61.9	64.7	63.8
130°	36.4	41.9	61.0	65.6	68.3
132.5°	38.3	42.8	59.2	66.5	68.3
135°	39.2	43.7	57.4	71.0	70.1
137.5°	40.1	44.6	58.3	68.3	72.9
140°	41.9	44.6	59.2	64.7	70.1
142.5°	42.8	45.5	59.2	61.9	65.6
145°	43.7	45.5	54.7	62.8	63.8
147.5°	43.7	46.5	51.0	63.8	63.8
150°	44.6	46.5	51.0	63.8	63.8
152.5°	45.5	47.4	50.1	55.6	62.8
155°	45.5	47.4	50.1	53.7	53.7
157.5°	46.5	47.4	50.1	52.8	52.8
160°	46.5	47.4	50.1	51.9	51.0
162.5°	47.4	47.4	49.2	51.0	50.1
165°	47.4	47.4	50.1	51.0	50.1
167.5°	47.4	48.3	49.2	50.1	49.2
170°	48.3	48.3	49.2	49.2	48.3
172.5°	48.3	48.3	49.2	48.3	47.4
175°	48.3	48.3	48.3	48.3	46.5
177.5°	48.3	47.4	48.3	47.4	45.5
180°	47.4	47.4	47.4	47.4	47.4

(END OF REPORT)