

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: P274865

Luminaire Tested: **J2-WL-20L92765-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274865
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-20L92765-1D-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, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1610.2 lumens
Efficiency: N/A
Efficacy: 94.7 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

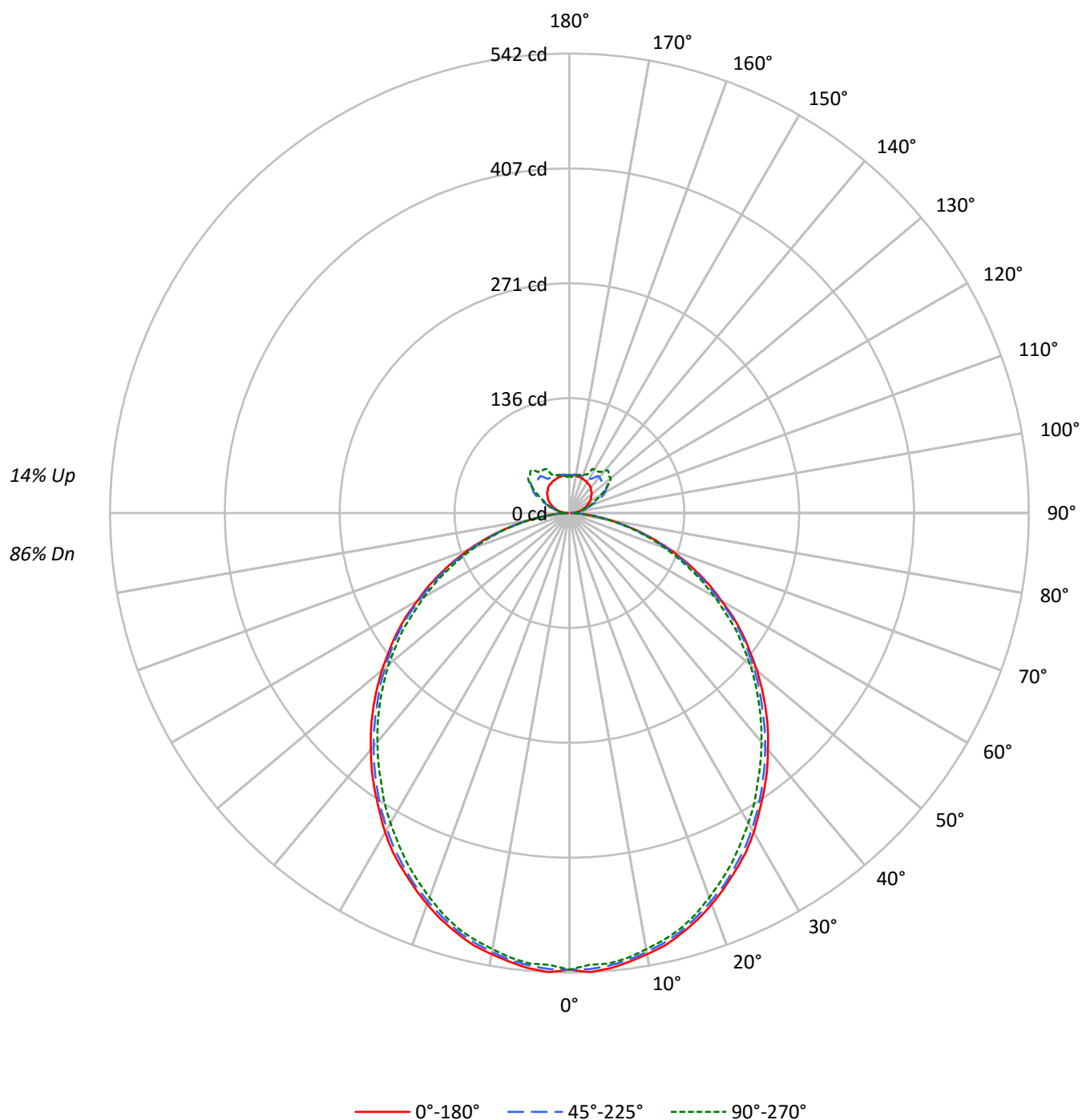
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	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	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°	4347	4347	4347
5°	4370	4343	4323
10°	4331	4309	4282
15°	4288	4267	4238
20°	4217	4188	4144
25°	4138	4108	4048
30°	4054	4014	3935
35°	3942	3901	3817
40°	3840	3786	3715
45°	3742	3666	3608
50°	3627	3563	3499
55°	3514	3467	3371
60°	3345	3291	3195
65°	3196	3116	3018
70°	2988	2908	2806
75°	2701	2648	2570
80°	2292	2250	2213
85°	1732	1806	1732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.2
10°-20°	143.3	8.9
20°-30°	211.4	13.1
30°-40°	246.4	15.3
40°-50°	247.7	15.4
50°-60°	218.1	13.5
60°-70°	161.0	10.0
70°-80°	89.2	5.5
80°-90°	23.2	1.4
90°-100°	8.2	0.5
100°-110°	21.3	1.3
110°-120°	34.6	2.1
120°-130°	43.2	2.7
130°-140°	40.6	2.5
140°-150°	32.0	2.0
150°-160°	22.0	1.4
160°-170°	13.0	0.8
170°-180°	4.3	0.3
0°-30°	405.4	25.2
0°-40°	651.8	40.5
0°-60°	1117.6	69.4
0°-90°	1391.1	86.4
90°-120°	64.1	4.0
90°-150°	179.8	11.2
90°-180°	219.0	13.6
0°-180°	1610.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	539	533	536	534	533	51
15°	513	508	510	508	507	145
25°	465	460	461	455	454	214
35°	400	397	396	389	387	250
45°	328	324	321	317	316	253
55°	250	247	246	241	240	223
65°	167	166	163	160	158	165
75°	87	86	85	82	82	92
85°	19	20	20	19	19	22
90°	2	3	3	3	3	2
95°	6	7	8	8	8	6
105°	16	22	20	21	20	17
115°	24	38	39	34	33	24
125°	31	43	54	55	54	28
135°	36	41	54	66	65	28
145°	41	42	51	59	60	25
155°	42	44	47	50	50	20
165°	44	44	47	48	47	13
175°	45	45	45	45	43	4
180°	44	44	44	44	44	



TEST NUMBER: P274865

CATALOG NUMBER: J2-WL-20L92765-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.5	538.5	538.5	538.5	538.5
2.5°	541.9	535.9	538.5	536.8	533.4
5°	539.3	533.4	535.9	534.2	533.4
7.5°	534.2	529.1	531.7	530.0	529.1
10°	528.3	523.2	525.7	523.2	522.3
12.5°	522.3	516.4	518.9	515.6	515.6
15°	513.0	507.9	510.5	507.9	507.1
17.5°	502.8	497.7	499.4	496.9	496.0
20°	490.9	485.8	487.5	484.1	482.4
22.5°	478.2	473.9	475.6	469.7	468.8
25°	464.6	460.3	461.2	455.2	454.4
27.5°	451.0	445.1	446.8	440.0	438.3
30°	434.9	429.8	430.6	423.8	422.1
32.5°	417.0	413.6	413.6	406.8	406.0
35°	400.0	396.6	395.8	389.0	387.3
37.5°	383.1	378.8	378.0	370.3	370.3
40°	364.4	361.0	359.3	353.3	352.5
42.5°	346.5	342.3	340.6	334.6	334.6
45°	327.8	324.4	321.1	316.8	316.0
47.5°	308.3	304.9	303.2	298.1	297.3
50°	288.8	286.2	283.7	279.4	278.6
52.5°	268.4	266.7	265.0	260.7	258.2
55°	249.7	247.2	246.3	241.2	239.5
57.5°	229.3	226.8	225.9	220.0	217.4
60°	207.2	204.7	203.8	198.7	197.9
62.5°	187.7	185.2	183.5	180.1	178.4
65°	167.3	165.6	163.1	159.7	158.0
67.5°	146.9	145.2	142.7	140.1	138.4
70°	126.6	124.9	123.2	119.8	118.9
72.5°	106.2	104.5	102.8	101.1	101.1
75°	86.6	85.8	84.9	82.4	82.4
77.5°	67.1	66.2	65.4	64.5	64.5
80°	49.3	49.3	48.4	47.6	47.6
82.5°	33.1	33.1	33.1	32.3	32.3
85°	18.7	19.5	19.5	18.7	18.7
87.5°	7.6	7.6	7.6	7.6	7.6
90°	1.7	3.4	3.4	3.4	3.4
92.5°	3.4	4.2	5.1	5.9	5.1
95°	5.9	6.8	7.6	7.6	7.6
97.5°	9.3	10.2	10.2	10.2	10.2
100°	11.9	13.6	12.7	13.6	12.7
102.5°	14.4	17.8	17.8	16.1	16.1
105°	16.1	22.1	19.5	21.2	19.5
107.5°	17.8	27.2	22.9	23.8	24.6
110°	20.4	30.6	28.0	25.5	26.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.1	37.4	33.1	29.7	28.9
115°	23.8	38.2	39.1	34.0	33.1
117.5°	26.3	38.2	44.2	39.9	38.2
120°	28.0	40.8	48.4	45.0	43.3
122.5°	29.7	42.5	51.0	51.0	49.3
125°	31.4	43.3	53.5	55.2	54.4
127.5°	32.3	40.8	57.8	60.3	59.5
130°	34.0	39.1	56.9	61.2	63.7
132.5°	35.7	39.9	55.2	62.0	63.7
135°	36.5	40.8	53.5	66.2	65.4
137.5°	37.4	41.6	54.4	63.7	67.9
140°	39.1	41.6	55.2	60.3	65.4
142.5°	39.9	42.5	55.2	57.8	61.2
145°	40.8	42.5	51.0	58.6	59.5
147.5°	40.8	43.3	47.6	59.5	59.5
150°	41.6	43.3	47.6	59.5	59.5
152.5°	42.5	44.2	46.7	51.8	58.6
155°	42.5	44.2	46.7	50.1	50.1
157.5°	43.3	44.2	46.7	49.3	49.3
160°	43.3	44.2	46.7	48.4	47.6
162.5°	44.2	44.2	45.9	47.6	46.7
165°	44.2	44.2	46.7	47.6	46.7
167.5°	44.2	45.0	45.9	46.7	45.9
170°	45.0	45.0	45.9	45.9	45.0
172.5°	45.0	45.0	45.9	45.0	44.2
175°	45.0	45.0	45.0	45.0	43.3
177.5°	45.0	44.2	45.0	44.2	42.5
180°	44.2	44.2	44.2	44.2	44.2

(END OF REPORT)