

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: P274874

Luminaire Tested: **J2-WL-20L92765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-1)
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-W-4 (4000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1804.1 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

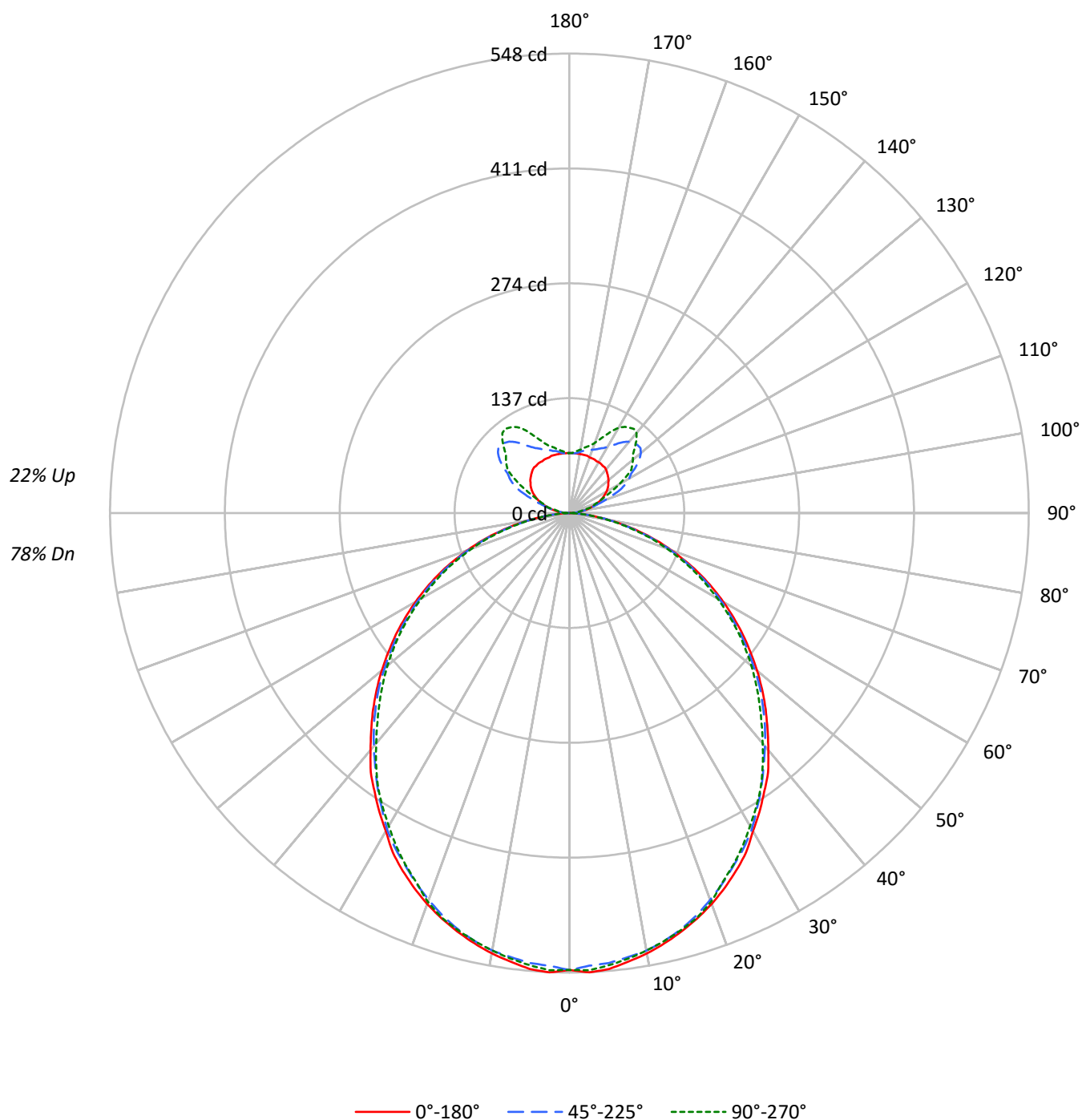
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	100	96	92	99	95	92	88	87	84	82	80	78	76	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	46	43	40		
5	73	61	52	46	69	58	50	45	54	47	42	50	44	40	46	41	37	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	41	37	33	31		
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	43	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4398	4398	4398
5°	4422	4365	4387
10°	4372	4343	4343
15°	4318	4295	4303
20°	4263	4217	4241
25°	4192	4130	4122
30°	4083	4058	4017
35°	3994	3933	3924
40°	3890	3824	3778
45°	3780	3730	3659
50°	3671	3616	3559
55°	3554	3492	3443
60°	3421	3365	3294
65°	3272	3205	3137
70°	3043	3002	2917
75°	2754	2673	2589
80°	2259	2259	2134
85°	1473	1556	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	2.8
10°-20°	145.3	8.1
20°-30°	214.6	11.9
30°-40°	250.6	13.9
40°-50°	252.1	14.0
50°-60°	222.1	12.3
60°-70°	166.0	9.2
70°-80°	91.3	5.1
80°-90°	21.4	1.2
90°-100°	10.1	0.6
100°-110°	32.7	1.8
110°-120°	61.6	3.4
120°-130°	77.5	4.3
130°-140°	76.4	4.2
140°-150°	62.1	3.4
150°-160°	40.0	2.2
160°-170°	21.9	1.2
170°-180°	7.0	0.4
0°-30°	411.3	22.8
0°-40°	661.9	36.7
0°-60°	1136.0	63.0
0°-90°	1414.7	78.4
90°-120°	104.4	5.8
90°-150°	320.5	17.8
90°-180°	389.0	21.6
0°-180°	1804.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	546	542	539	541	541	52
15°	517	517	514	516	515	146
25°	471	468	464	466	463	217
35°	405	404	399	398	398	254
45°	331	330	327	324	320	255
55°	252	252	248	245	245	226
65°	171	171	168	165	164	169
75°	88	87	86	85	83	93
85°	16	17	17	17	17	20
90°	0	0	0	0	0	1
95°	10	9	9	10	10	10
105°	27	43	28	28	26	29
115°	44	86	68	52	48	44
125°	56	89	97	90	90	50
135°	64	80	115	115	110	50
145°	69	78	102	121	124	43
155°	71	76	85	96	102	33
165°	72	73	77	80	82	20
175°	72	72	72	73	73	7
180°	72	72	72	72	72	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.8	544.8	544.8	544.8	544.8
2.5°	548.3	544.8	540.4	543.9	545.7
5°	545.7	542.2	538.6	541.3	541.3
7.5°	539.5	538.6	534.2	537.7	536.0
10°	533.3	532.4	529.8	532.4	529.8
12.5°	525.4	524.5	522.7	526.3	522.7
15°	516.6	516.6	513.9	515.7	514.8
17.5°	506.8	506.8	503.3	505.1	506.0
20°	496.2	494.5	490.9	492.7	493.6
22.5°	483.9	482.1	477.7	479.5	476.8
25°	470.6	468.0	463.6	466.2	462.7
27.5°	456.5	452.1	450.3	451.2	447.7
30°	438.0	437.1	435.3	433.6	430.9
32.5°	422.1	421.2	416.8	415.0	415.0
35°	405.3	404.4	399.1	398.2	398.2
37.5°	389.4	386.8	380.6	379.7	378.8
40°	369.1	368.2	362.9	361.1	358.5
42.5°	349.7	348.8	345.3	342.6	339.1
45°	331.1	330.2	326.7	324.1	320.5
47.5°	311.7	312.6	308.2	303.8	302.0
50°	292.3	293.2	287.9	284.3	283.4
52.5°	272.0	272.8	267.5	264.0	264.0
55°	252.5	252.5	248.1	244.6	244.6
57.5°	232.2	232.2	227.8	225.2	224.3
60°	211.9	211.0	208.4	205.7	204.0
62.5°	191.6	191.6	188.1	185.4	183.7
65°	171.3	171.3	167.8	165.1	164.2
67.5°	150.1	151.0	147.5	144.8	143.9
70°	128.9	128.9	127.2	123.6	123.6
72.5°	109.5	107.7	106.8	104.2	104.2
75°	88.3	87.4	85.7	84.8	83.0
77.5°	68.0	68.0	66.2	65.3	64.5
80°	48.6	50.3	48.6	47.7	45.9
82.5°	30.9	32.7	31.8	30.0	30.0
85°	15.9	16.8	16.8	16.8	16.8
87.5°	5.3	6.2	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	5.3	7.1	7.1	7.1
95°	9.7	8.8	8.8	9.7	9.7
97.5°	14.1	14.1	11.5	11.5	11.5
100°	18.5	23.0	17.7	14.1	14.1
102.5°	23.0	32.7	23.0	19.4	17.7
105°	27.4	43.3	28.3	28.3	26.5
107.5°	31.8	52.1	36.2	29.1	30.0
110°	36.2	64.5	45.0	36.2	34.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.6	76.8	56.5	43.3	40.6
115°	44.1	85.7	68.0	52.1	47.7
117.5°	47.7	90.1	75.9	63.6	57.4
120°	51.2	91.8	82.1	74.2	68.9
122.5°	53.9	91.8	87.4	84.8	79.5
125°	56.5	89.2	97.1	90.1	90.1
127.5°	58.3	86.5	105.1	95.4	94.5
130°	60.9	83.9	111.3	98.0	98.9
132.5°	62.7	81.2	114.8	106.8	102.4
135°	64.5	80.4	114.8	114.8	110.4
137.5°	66.2	79.5	113.9	121.0	118.3
140°	68.0	79.5	111.3	123.6	124.5
142.5°	68.9	78.6	106.8	123.6	126.3
145°	68.9	77.7	101.5	121.0	124.5
147.5°	69.8	76.8	95.4	116.6	121.9
150°	69.8	76.8	90.9	111.3	117.4
152.5°	69.8	75.9	87.4	103.3	110.4
155°	70.6	75.9	84.8	96.2	102.4
157.5°	70.6	75.1	82.1	90.9	95.4
160°	70.6	74.2	80.4	86.5	89.2
162.5°	71.5	73.3	78.6	83.0	84.8
165°	71.5	73.3	76.8	80.4	82.1
167.5°	71.5	72.4	75.9	78.6	79.5
170°	71.5	72.4	74.2	75.9	76.8
172.5°	71.5	72.4	72.4	74.2	75.1
175°	71.5	72.4	71.5	73.3	73.3
177.5°	71.5	71.5	71.5	71.5	71.5
180°	71.5	71.5	71.5	71.5	71.5

(END OF REPORT)