

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: P253406

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253406
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-20L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2169.1 lumens
Efficiency: N/A
Efficacy: 121.9 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

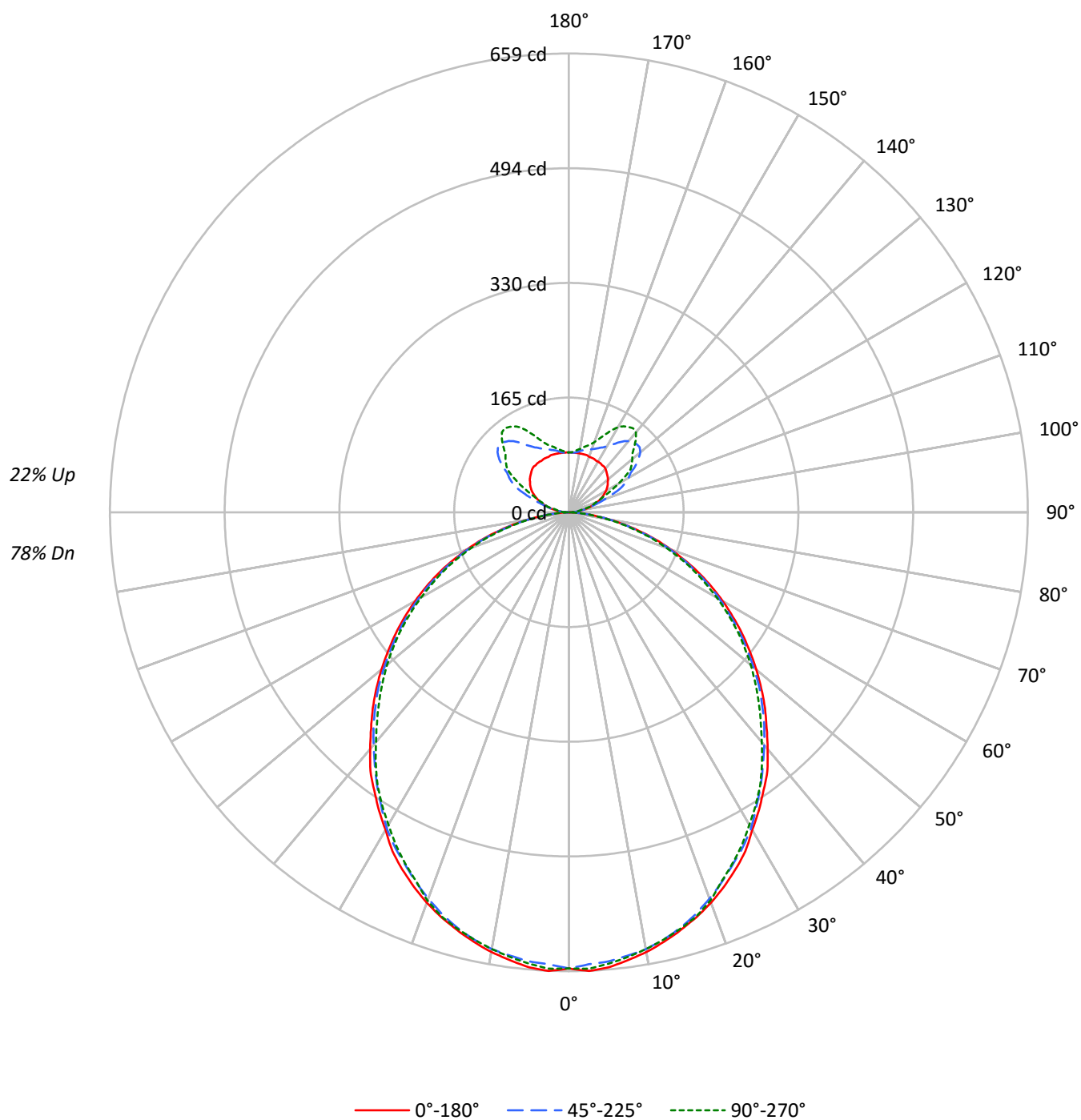
Input Watts (W): 17.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5289	5289	5289
5°	5317	5248	5274
10°	5257	5222	5222
15°	5191	5164	5173
20°	5126	5071	5099
25°	5041	4965	4955
30°	4909	4879	4830
35°	4802	4730	4719
40°	4677	4599	4542
45°	4545	4485	4400
50°	4413	4347	4280
55°	4273	4198	4139
60°	4114	4046	3961
65°	3935	3853	3773
70°	3659	3609	3508
75°	3313	3213	3113
80°	2715	2715	2566
85°	1769	1871	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	2.8
10°-20°	174.7	8.1
20°-30°	258.1	11.9
30°-40°	301.3	13.9
40°-50°	303.1	14.0
50°-60°	267.0	12.3
60°-70°	199.6	9.2
70°-80°	109.7	5.1
80°-90°	25.8	1.2
90°-100°	12.1	0.6
100°-110°	39.3	1.8
110°-120°	74.0	3.4
120°-130°	93.2	4.3
130°-140°	91.9	4.2
140°-150°	74.7	3.4
150°-160°	48.1	2.2
160°-170°	26.3	1.2
170°-180°	8.4	0.4
0°-30°	494.5	22.8
0°-40°	795.8	36.7
0°-60°	1365.9	63.0
0°-90°	1701.0	78.4
90°-120°	125.5	5.8
90°-150°	385.3	17.8
90°-180°	468.0	21.6
0°-180°	2169.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	656	652	648	651	651	62
15°	621	621	618	620	619	175
25°	566	563	557	561	556	260
35°	487	486	480	479	479	305
45°	398	397	393	390	385	307
55°	304	304	298	294	294	271
65°	206	206	202	198	198	203
75°	106	105	103	102	100	112
85°	19	20	20	20	20	24
90°	0	0	0	0	0	2
95°	12	11	11	12	12	12
105°	33	52	34	34	32	35
115°	53	103	82	63	57	52
125°	68	107	117	108	108	61
135°	78	97	138	138	133	60
145°	83	93	122	146	150	52
155°	85	91	102	116	123	39
165°	86	88	92	97	99	24
175°	86	87	86	88	88	8
180°	86	86	86	86	86	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.1	655.1	655.1	655.1	655.1
2.5°	659.3	655.1	649.8	654.0	656.1
5°	656.1	651.9	647.6	650.8	650.8
7.5°	648.7	647.6	642.3	646.6	644.4
10°	641.3	640.2	637.0	640.2	637.0
12.5°	631.7	630.6	628.5	632.8	628.5
15°	621.1	621.1	617.9	620.0	619.0
17.5°	609.4	609.4	605.2	607.3	608.4
20°	596.7	594.5	590.3	592.4	593.5
22.5°	581.8	579.7	574.4	576.5	573.3
25°	565.9	562.7	557.4	560.6	556.3
27.5°	548.9	543.6	541.5	542.5	538.3
30°	526.6	525.5	523.4	521.3	518.1
32.5°	507.5	506.4	501.1	499.0	499.0
35°	487.3	486.3	479.9	478.8	478.8
37.5°	468.2	465.0	457.6	456.5	455.5
40°	443.8	442.7	436.4	434.2	431.0
42.5°	420.4	419.4	415.1	411.9	407.7
45°	398.1	397.1	392.8	389.6	385.4
47.5°	374.8	375.8	370.5	365.2	363.1
50°	351.4	352.5	346.1	341.9	340.8
52.5°	327.0	328.1	321.7	317.4	317.4
55°	303.6	303.6	298.3	294.1	294.1
57.5°	279.2	279.2	273.9	270.7	269.7
60°	254.8	253.7	250.6	247.4	245.3
62.5°	230.4	230.4	226.1	223.0	220.8
65°	206.0	206.0	201.7	198.5	197.5
67.5°	180.5	181.6	177.3	174.1	173.1
70°	155.0	155.0	152.9	148.6	148.6
72.5°	131.7	129.5	128.5	125.3	125.3
75°	106.2	105.1	103.0	101.9	99.8
77.5°	81.8	81.8	79.6	78.6	77.5
80°	58.4	60.5	58.4	57.3	55.2
82.5°	37.2	39.3	38.2	36.1	36.1
85°	19.1	20.2	20.2	20.2	20.2
87.5°	6.4	7.4	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	6.4	6.4	8.5	8.5	8.5
95°	11.7	10.6	10.6	11.7	11.7
97.5°	17.0	17.0	13.8	13.8	13.8
100°	22.3	27.6	21.2	17.0	17.0
102.5°	27.6	39.3	27.6	23.4	21.2
105°	32.9	52.0	34.0	34.0	31.9
107.5°	38.2	62.6	43.5	35.0	36.1
110°	43.5	77.5	54.1	43.5	41.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.8	92.4	67.9	52.0	48.8
115°	53.1	103.0	81.8	62.6	57.3
117.5°	57.3	108.3	91.3	76.4	69.0
120°	61.6	110.4	98.7	89.2	82.8
122.5°	64.8	110.4	105.1	101.9	95.6
125°	67.9	107.2	116.8	108.3	108.3
127.5°	70.1	104.0	126.3	114.7	113.6
130°	73.3	100.9	133.8	117.8	118.9
132.5°	75.4	97.7	138.0	128.5	123.2
135°	77.5	96.6	138.0	138.0	132.7
137.5°	79.6	95.6	137.0	145.5	142.3
140°	81.8	95.6	133.8	148.6	149.7
142.5°	82.8	94.5	128.5	148.6	151.8
145°	82.8	93.4	122.1	145.5	149.7
147.5°	83.9	92.4	114.7	140.1	146.5
150°	83.9	92.4	109.4	133.8	141.2
152.5°	83.9	91.3	105.1	124.2	132.7
155°	84.9	91.3	101.9	115.7	123.2
157.5°	84.9	90.2	98.7	109.4	114.7
160°	84.9	89.2	96.6	104.0	107.2
162.5°	86.0	88.1	94.5	99.8	101.9
165°	86.0	88.1	92.4	96.6	98.7
167.5°	86.0	87.1	91.3	94.5	95.6
170°	86.0	87.1	89.2	91.3	92.4
172.5°	86.0	87.1	87.1	89.2	90.2
175°	86.0	87.1	86.0	88.1	88.1
177.5°	86.0	86.0	86.0	86.0	86.0
180°	86.0	86.0	86.0	86.0	86.0

(END OF REPORT)