

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: P253410

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253410
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-20L93050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1876.6 lumens
Efficiency: N/A
Efficacy: 107.8 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

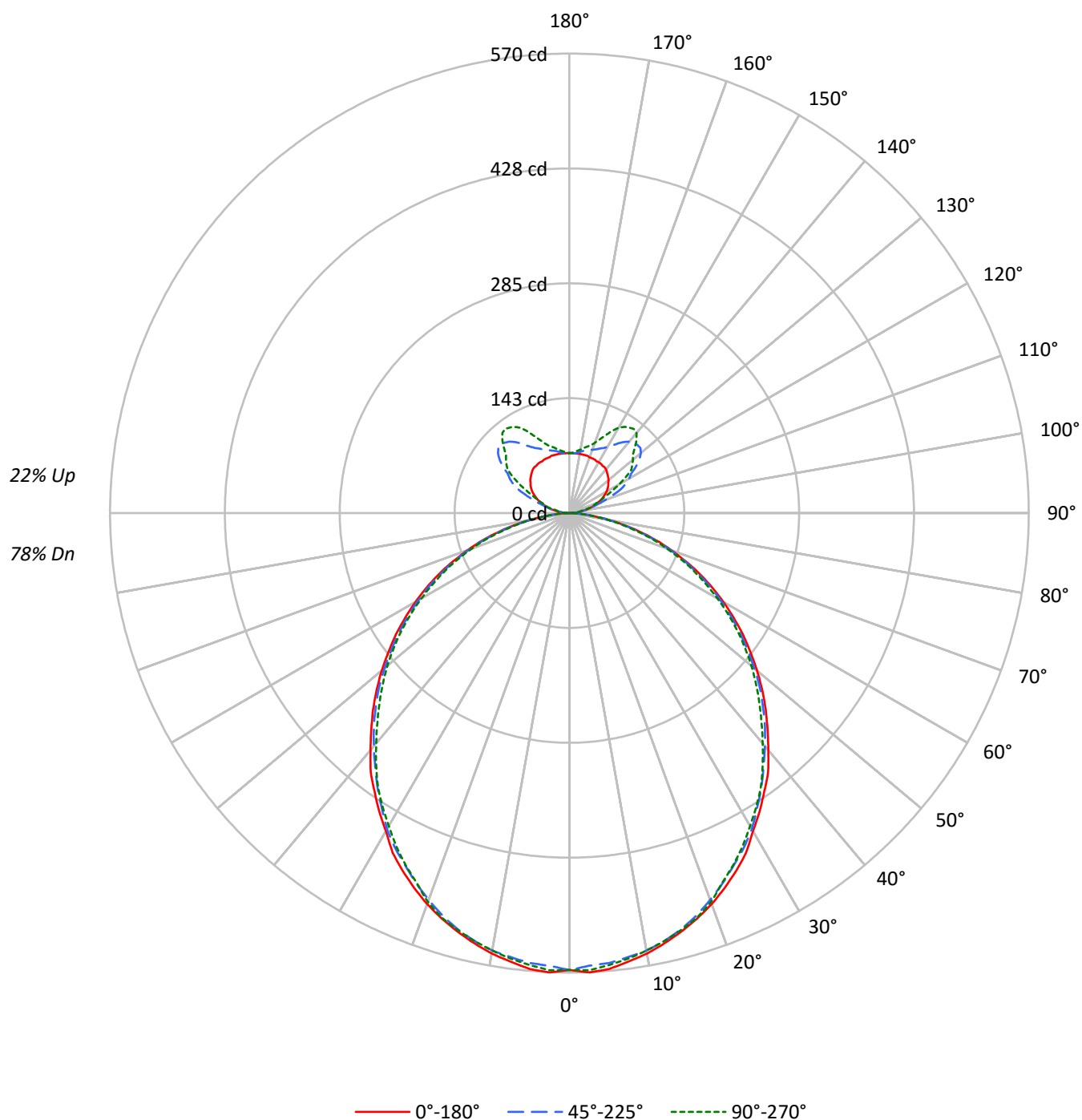
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4575	4575	4575
5°	4600	4541	4562
10°	4548	4518	4518
15°	4491	4468	4476
20°	4435	4387	4411
25°	4361	4295	4287
30°	4247	4221	4178
35°	4155	4092	4082
40°	4046	3978	3930
45°	3932	3879	3806
50°	3818	3760	3702
55°	3697	3633	3581
60°	3559	3500	3426
65°	3404	3333	3263
70°	3165	3123	3035
75°	2866	2779	2692
80°	2348	2348	2222
85°	1528	1621	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.8
10°-20°	151.1	8.1
20°-30°	223.3	11.9
30°-40°	260.7	13.9
40°-50°	262.2	14.0
50°-60°	231.0	12.3
60°-70°	172.7	9.2
70°-80°	94.9	5.1
80°-90°	22.3	1.2
90°-100°	10.5	0.6
100°-110°	34.1	1.8
110°-120°	64.0	3.4
120°-130°	80.6	4.3
130°-140°	79.5	4.2
140°-150°	64.6	3.4
150°-160°	41.7	2.2
160°-170°	22.8	1.2
170°-180°	7.2	0.4
0°-30°	427.8	22.8
0°-40°	688.5	36.7
0°-60°	1181.7	63.0
0°-90°	1471.6	78.4
90°-120°	108.6	5.8
90°-150°	333.3	17.8
90°-180°	405.0	21.6
0°-180°	1876.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	568	564	560	563	563	54
15°	537	537	535	536	536	152
25°	490	487	482	485	481	225
35°	422	421	415	414	414	264
45°	344	344	340	337	333	266
55°	263	263	258	254	254	235
65°	178	178	174	172	171	176
75°	92	91	89	88	86	97
85°	16	18	18	18	18	21
90°	0	0	0	0	0	2
95°	10	9	9	10	10	10
105°	28	45	29	29	28	30
115°	46	89	71	54	50	45
125°	59	93	101	94	94	52
135°	67	84	119	119	115	52
145°	72	81	106	126	130	45
155°	74	79	88	100	106	34
165°	74	76	80	84	85	21
175°	74	75	74	76	76	7
180°	74	74	74	74	74	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.7	566.7	566.7	566.7	566.7
2.5°	570.4	566.7	562.1	565.8	567.6
5°	567.6	564.0	560.3	563.0	563.0
7.5°	561.2	560.3	555.7	559.4	557.5
10°	554.8	553.9	551.1	553.9	551.1
12.5°	546.5	545.6	543.8	547.4	543.8
15°	537.3	537.3	534.6	536.4	535.5
17.5°	527.2	527.2	523.6	525.4	526.3
20°	516.2	514.4	510.7	512.5	513.4
22.5°	503.3	501.5	496.9	498.8	496.0
25°	489.6	486.8	482.2	485.0	481.3
27.5°	474.9	470.3	468.4	469.4	465.7
30°	455.6	454.7	452.8	451.0	448.2
32.5°	439.0	438.1	433.5	431.7	431.7
35°	421.6	420.7	415.2	414.2	414.2
37.5°	405.1	402.3	395.9	395.0	394.0
40°	383.9	383.0	377.5	375.7	372.9
42.5°	363.7	362.8	359.1	356.4	352.7
45°	344.4	343.5	339.8	337.1	333.4
47.5°	324.2	325.2	320.6	316.0	314.1
50°	304.0	304.9	299.4	295.8	294.8
52.5°	282.9	283.8	278.3	274.6	274.6
55°	262.7	262.7	258.1	254.4	254.4
57.5°	241.6	241.6	237.0	234.2	233.3
60°	220.4	219.5	216.8	214.0	212.2
62.5°	199.3	199.3	195.6	192.9	191.1
65°	178.2	178.2	174.5	171.8	170.8
67.5°	156.1	157.1	153.4	150.6	149.7
70°	134.1	134.1	132.3	128.6	128.6
72.5°	113.9	112.1	111.1	108.4	108.4
75°	91.9	90.9	89.1	88.2	86.3
77.5°	70.7	70.7	68.9	68.0	67.1
80°	50.5	52.4	50.5	49.6	47.8
82.5°	32.1	34.0	33.1	31.2	31.2
85°	16.5	17.5	17.5	17.5	17.5
87.5°	5.5	6.4	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	5.5	7.3	7.3	7.3
95°	10.1	9.2	9.2	10.1	10.1
97.5°	14.7	14.7	11.9	11.9	11.9
100°	19.3	23.9	18.4	14.7	14.7
102.5°	23.9	34.0	23.9	20.2	18.4
105°	28.5	45.0	29.4	29.4	27.6
107.5°	33.1	54.2	37.7	30.3	31.2
110°	37.7	67.1	46.8	37.7	35.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	79.9	58.8	45.0	42.3
115°	45.9	89.1	70.7	54.2	49.6
117.5°	49.6	93.7	79.0	66.1	59.7
120°	53.3	95.5	85.4	77.2	71.6
122.5°	56.0	95.5	90.9	88.2	82.7
125°	58.8	92.8	101.0	93.7	93.7
127.5°	60.6	90.0	109.3	99.2	98.3
130°	63.4	87.3	115.7	102.0	102.9
132.5°	65.2	84.5	119.4	111.1	106.5
135°	67.1	83.6	119.4	119.4	114.8
137.5°	68.9	82.7	118.5	125.8	123.1
140°	70.7	82.7	115.7	128.6	129.5
142.5°	71.6	81.7	111.1	128.6	131.3
145°	71.6	80.8	105.6	125.8	129.5
147.5°	72.6	79.9	99.2	121.2	126.8
150°	72.6	79.9	94.6	115.7	122.2
152.5°	72.6	79.0	90.9	107.5	114.8
155°	73.5	79.0	88.2	100.1	106.5
157.5°	73.5	78.1	85.4	94.6	99.2
160°	73.5	77.2	83.6	90.0	92.8
162.5°	74.4	76.2	81.7	86.3	88.2
165°	74.4	76.2	79.9	83.6	85.4
167.5°	74.4	75.3	79.0	81.7	82.7
170°	74.4	75.3	77.2	79.0	79.9
172.5°	74.4	75.3	75.3	77.2	78.1
175°	74.4	75.3	74.4	76.2	76.2
177.5°	74.4	74.4	74.4	74.4	74.4
180°	74.4	74.4	74.4	74.4	74.4

(END OF REPORT)