

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: P253479

Luminaire Tested: **J3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.8 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

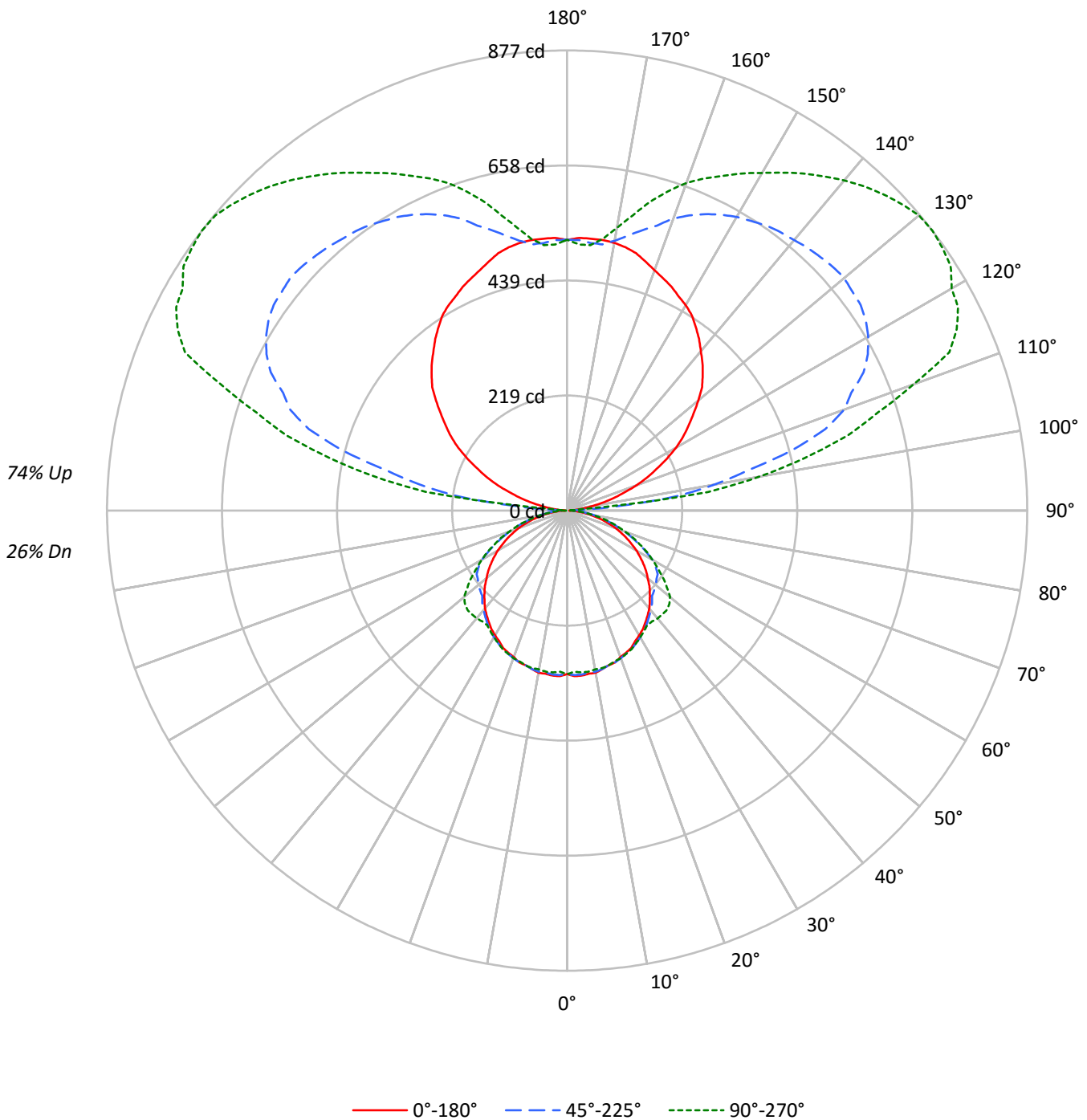
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2516	2516	2516
5°	2559	2542	2509
10°	2572	2554	2521
15°	2552	2552	2552
20°	2553	2571	2571
25°	2573	2592	2592
30°	2559	2597	2597
35°	2562	2604	2623
40°	2566	2610	2827
45°	2545	2616	3063
50°	2514	2773	3214
55°	2498	2963	3137
60°	2465	3032	3032
65°	2405	2879	2917
70°	2339	2729	2776
75°	2190	2576	2639
80°	2013	2497	2399
85°	1908	2677	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	0.7
10°-20°	86.2	2.1
20°-30°	133.3	3.3
30°-40°	165.3	4.1
40°-50°	185.0	4.5
50°-60°	180.8	4.4
60°-70°	142.6	3.5
70°-80°	86.3	2.1
80°-90°	30.7	0.8
90°-100°	105.9	2.6
100°-110°	409.6	10.0
110°-120°	562.9	13.8
120°-130°	569.5	14.0
130°-140°	504.7	12.4
140°-150°	399.2	9.8
150°-160°	278.7	6.8
160°-170°	157.7	3.9
170°-180°	49.4	1.2
0°-30°	249.3	6.1
0°-40°	414.6	10.2
0°-60°	780.4	19.1
0°-90°	1040.0	25.5
90°-120°	1078.5	26.4
90°-150°	2551.9	62.6
90°-180°	3038.0	74.5
0°-180°	4077.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	312	312	312	312	312	
5°	316	312	314	312	310	30
15°	305	303	305	305	305	87
25°	289	285	291	291	291	133
35°	260	260	264	266	266	163
45°	223	225	229	258	268	172
55°	178	180	210	223	223	159
65°	126	132	151	153	153	124
75°	70	83	83	85	85	74
85°	21	33	29	27	25	22
90°	4	12	10	2	2	4
95°	16	83	99	21	21	20
105°	91	293	444	512	553	97
115°	188	396	623	772	819	187
125°	283	458	683	832	873	253
135°	365	504	683	817	852	281
145°	427	516	662	760	784	267
155°	471	504	623	691	704	217
165°	508	506	553	601	609	143
175°	520	514	512	512	508	50
180°	516	516	516	516	516	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	311.6	311.6	311.6	311.6	311.6
2.5°	315.8	311.6	313.7	311.6	307.5
5°	315.8	311.6	313.7	311.6	309.6
7.5°	313.7	311.6	311.6	309.6	309.6
10°	313.7	309.6	311.6	309.6	307.5
12.5°	309.6	307.5	309.6	307.5	307.5
15°	305.4	303.4	305.4	305.4	305.4
17.5°	303.4	299.3	303.4	303.4	301.3
20°	297.2	295.1	299.3	299.3	299.3
22.5°	293.1	291.0	295.1	295.1	295.1
25°	288.9	284.8	291.0	291.0	291.0
27.5°	280.7	280.7	284.8	286.9	284.8
30°	274.5	272.4	278.6	280.7	278.6
32.5°	268.3	266.2	272.4	274.5	272.4
35°	260.0	260.0	264.2	266.2	266.2
37.5°	251.8	251.8	255.9	258.0	266.2
40°	243.5	243.5	247.7	260.0	268.3
42.5°	233.2	233.2	239.4	258.0	268.3
45°	222.9	225.0	229.1	258.0	268.3
47.5°	212.6	214.6	225.0	255.9	264.2
50°	200.2	204.3	220.8	249.7	255.9
52.5°	189.9	191.9	214.6	239.4	239.4
55°	177.5	179.6	210.5	222.9	222.9
57.5°	165.1	167.2	200.2	204.3	204.3
60°	152.7	154.8	187.8	187.8	187.8
62.5°	138.3	142.4	169.2	171.3	171.3
65°	125.9	132.1	150.7	152.7	152.7
67.5°	111.4	121.8	134.1	136.2	136.2
70°	99.1	111.4	115.6	117.6	117.6
72.5°	84.6	97.0	99.1	101.1	101.1
75°	70.2	82.6	82.6	84.6	84.6
77.5°	55.7	66.0	68.1	68.1	68.1
80°	43.3	49.5	53.7	51.6	51.6
82.5°	31.0	39.2	39.2	39.2	37.1
85°	20.6	33.0	28.9	26.8	24.8
87.5°	12.4	28.9	16.5	14.4	14.4
90°	4.1	12.4	10.3	2.1	2.1
92.5°	8.3	20.6	10.3	8.3	6.2
95°	16.5	82.6	99.1	20.6	20.6
97.5°	31.0	138.3	212.6	251.8	270.4
100°	47.5	206.4	284.8	348.8	371.5
102.5°	68.1	249.7	350.9	431.3	464.4
105°	90.8	293.1	443.7	511.8	553.1
107.5°	113.5	326.1	516.0	592.3	621.2
110°	140.3	352.9	561.4	693.4	701.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.1	373.6	586.1	743.0	788.4
115°	187.8	396.3	623.3	771.9	819.3
117.5°	214.6	412.8	646.0	788.4	840.0
120°	239.4	427.2	662.5	809.0	846.2
122.5°	262.1	443.7	674.9	825.5	866.8
125°	282.7	458.2	683.1	831.7	873.0
127.5°	303.4	470.6	685.2	833.8	877.1
130°	326.1	482.9	689.3	831.7	875.1
132.5°	348.8	495.3	687.3	825.5	864.7
135°	365.3	503.6	683.1	817.3	852.4
137.5°	381.8	509.8	679.0	804.9	837.9
140°	396.3	513.9	672.8	790.4	821.4
142.5°	412.8	516.0	668.7	776.0	802.8
145°	427.2	516.0	662.5	759.5	784.3
147.5°	441.7	513.9	654.2	743.0	763.6
150°	452.0	509.8	646.0	726.5	743.0
152.5°	460.2	505.6	635.7	707.9	724.4
155°	470.6	503.6	623.3	691.4	703.8
157.5°	478.8	503.6	608.8	672.8	685.2
160°	487.1	503.6	592.3	654.2	664.6
162.5°	497.4	503.6	569.6	627.4	637.7
165°	507.7	505.6	553.1	600.6	608.8
167.5°	513.9	505.6	536.6	567.6	575.8
170°	518.0	509.8	522.1	544.9	546.9
172.5°	520.1	513.9	511.8	522.1	522.1
175°	520.1	513.9	511.8	511.8	507.7
177.5°	520.1	516.0	516.0	513.9	507.7
180°	516.0	516.0	516.0	516.0	516.0

(END OF REPORT)