

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: P253556

Luminaire Tested: **J3-FL-40L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-FL-40L93050-1D-UNV-W2A-W-4 (5000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3591.5 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

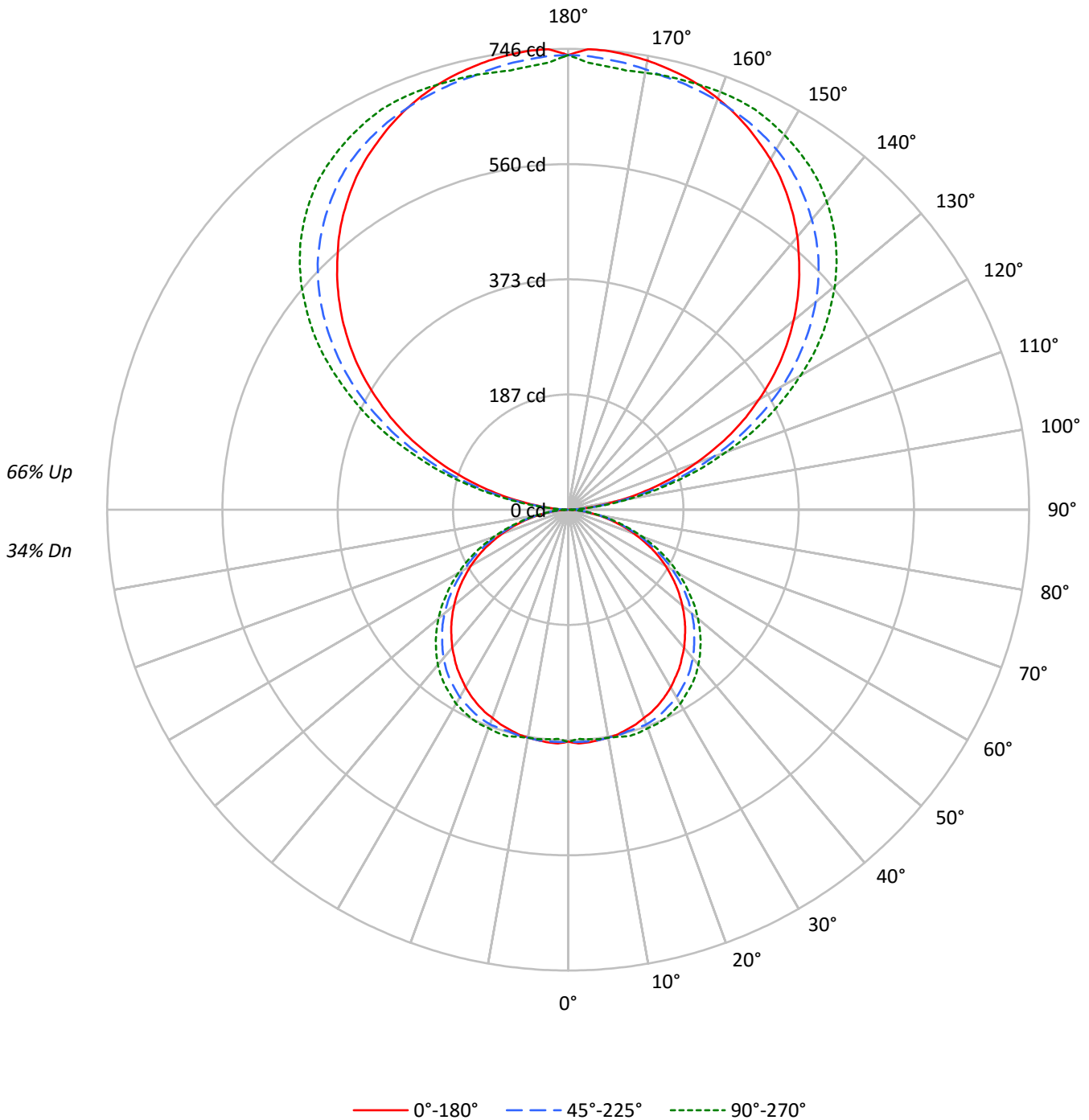
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3031	3031	3031
5°	3063	3050	3024
10°	3072	3072	3072
15°	3077	3105	3173
20°	3081	3178	3234
25°	3094	3224	3317
30°	3096	3268	3382
35°	3090	3296	3424
40°	3075	3304	3456
45°	3055	3294	3459
50°	3026	3280	3442
55°	2994	3234	3391
60°	2939	3150	3318
65°	2848	3032	3203
70°	2684	2856	3005
75°	2464	2614	2742
80°	2139	2287	2366
85°	1714	1778	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.8	1.0
10°-20°	105.4	2.9
20°-30°	166.0	4.6
30°-40°	207.4	5.8
40°-50°	221.0	6.2
50°-60°	203.8	5.7
60°-70°	156.5	4.4
70°-80°	88.7	2.5
80°-90°	23.4	0.7
90°-100°	37.7	1.0
100°-110°	177.2	4.9
110°-120°	321.2	8.9
120°-130°	412.5	11.5
130°-140°	438.9	12.2
140°-150°	403.8	11.2
150°-160°	319.8	8.9
160°-170°	203.0	5.7
170°-180°	69.6	1.9
0°-30°	307.1	8.6
0°-40°	514.5	14.3
0°-60°	939.3	26.2
0°-90°	1207.9	33.6
90°-120°	536.0	14.9
90°-150°	1791.2	49.9
90°-180°	2384.0	66.4
0°-180°	3591.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	378	375	376	376	373	36
15°	368	367	372	378	380	104
25°	347	348	362	369	372	160
35°	314	319	334	343	347	196
45°	268	275	288	297	303	206
55°	213	219	230	237	241	190
65°	149	152	159	164	168	147
75°	79	81	84	87	88	84
85°	18	19	19	20	20	21
90°	1	1	1	0	0	2
95°	25	26	28	30	31	32
105°	148	155	169	180	185	157
115°	290	302	328	348	358	286
125°	419	432	465	491	504	374
135°	529	537	573	598	613	408
145°	619	617	648	668	680	387
155°	684	675	692	707	715	316
165°	726	715	715	717	720	205
175°	746	737	732	726	720	71
180°	736	736	736	736	736	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	375.5	375.5	375.5	375.5	375.5
2.5°	378.8	375.5	376.4	376.4	371.5
5°	378.0	374.7	376.4	375.5	373.1
7.5°	376.4	374.0	376.4	376.4	374.7
10°	374.7	372.4	374.7	375.5	374.7
12.5°	372.4	369.9	374.0	375.5	376.4
15°	368.2	366.6	371.5	378.0	379.7
17.5°	364.4	363.5	370.8	378.0	378.8
20°	358.6	358.6	369.9	375.5	376.4
22.5°	353.9	353.9	366.6	372.4	375.5
25°	347.4	348.2	361.9	369.2	372.4
27.5°	340.1	342.6	356.2	364.4	367.5
30°	332.1	336.1	350.6	358.6	362.8
32.5°	322.5	327.9	342.6	350.6	354.6
35°	313.5	319.2	334.4	342.6	347.4
37.5°	302.3	309.5	324.8	332.8	338.6
40°	291.8	299.1	313.5	322.5	327.9
42.5°	279.6	287.7	301.4	310.3	315.9
45°	267.6	274.8	288.5	297.4	303.0
47.5°	254.7	262.0	275.8	283.8	289.2
50°	240.9	249.0	261.2	269.2	274.1
52.5°	227.2	234.5	245.8	254.0	258.7
55°	212.7	219.2	229.8	237.1	240.9
57.5°	197.4	203.8	212.7	220.0	224.0
60°	182.0	186.9	195.1	202.2	205.5
62.5°	166.0	170.1	177.3	183.0	186.9
65°	149.1	152.4	158.7	164.4	167.7
67.5°	131.4	134.6	140.2	145.1	147.5
70°	113.7	116.8	121.0	124.8	127.3
72.5°	96.6	98.3	102.3	105.6	107.2
75°	79.0	80.6	83.8	87.0	87.9
77.5°	62.9	63.6	66.2	67.8	68.5
80°	46.0	47.6	49.2	49.9	50.9
82.5°	31.4	32.2	33.0	33.8	34.5
85°	18.5	19.2	19.2	20.2	20.2
87.5°	8.0	8.9	8.9	8.9	8.9
90°	0.9	0.9	0.9	0.0	0.0
92.5°	8.0	8.0	8.9	9.6	10.5
95°	24.9	25.8	28.2	29.8	31.4
97.5°	49.9	51.6	56.3	60.5	62.1
100°	80.6	83.8	91.2	96.6	99.2
102.5°	113.7	118.4	129.0	137.0	141.0
105°	148.3	154.8	169.3	179.7	184.6
107.5°	183.8	191.9	210.4	222.5	228.9
110°	219.2	229.8	249.8	265.9	270.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	254.7	265.9	290.1	307.9	316.8
115°	290.1	302.3	327.9	348.2	357.9
117.5°	324.1	336.8	365.1	387.7	396.5
120°	356.2	369.9	400.6	424.0	434.4
122.5°	388.4	401.5	433.6	458.5	471.6
125°	419.1	432.0	465.1	490.8	504.5
127.5°	448.2	460.1	494.9	521.4	534.3
130°	476.3	487.6	523.0	549.0	563.4
132.5°	503.0	513.4	549.0	573.9	589.2
135°	528.8	536.8	573.0	598.0	612.6
137.5°	552.8	558.6	594.1	619.1	632.8
140°	577.1	578.8	613.3	636.7	651.2
142.5°	598.8	598.0	631.1	653.6	667.4
145°	619.1	616.6	648.0	668.1	680.3
147.5°	638.3	632.8	662.5	679.5	690.7
150°	655.2	648.0	673.8	690.7	700.3
152.5°	669.7	661.6	683.4	698.7	708.4
155°	684.3	674.7	692.3	706.8	714.9
157.5°	697.2	685.0	698.7	711.6	718.2
160°	708.4	696.5	705.2	714.9	719.8
162.5°	718.2	706.1	710.1	715.7	719.8
165°	726.3	714.9	714.9	717.2	719.8
167.5°	732.6	723.0	718.2	719.0	719.8
170°	738.3	728.6	723.7	719.0	718.2
172.5°	742.3	732.6	728.6	722.1	717.2
175°	745.5	736.7	731.7	726.3	720.5
177.5°	746.3	739.0	735.0	729.4	724.5
180°	735.9	735.9	735.9	735.9	735.9

(END OF REPORT)