

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: P253550

Luminaire Tested: **J3-FL-40L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253550
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3592.2 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

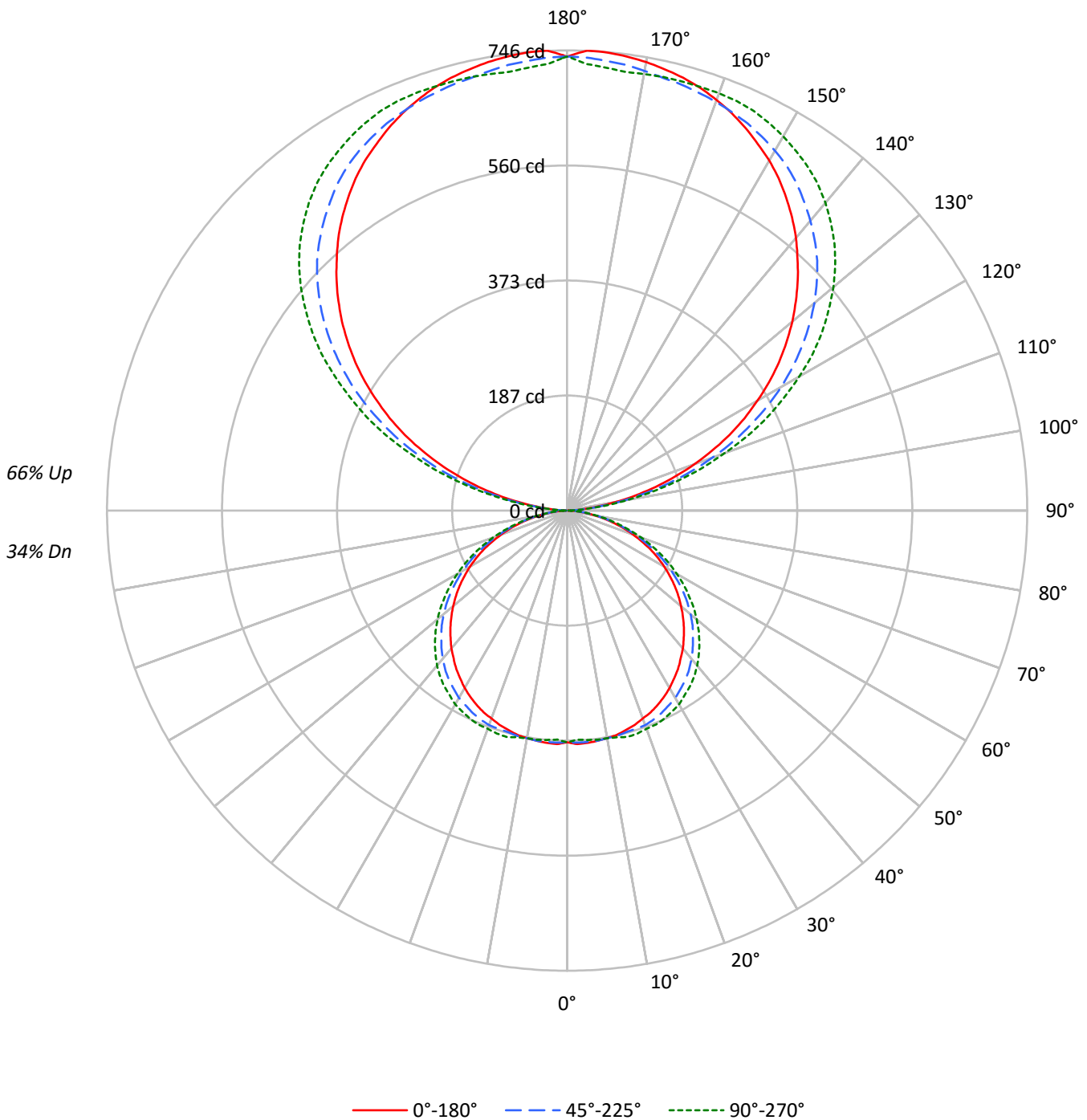
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3032	3032	3032
5°	3063	3051	3024
10°	3072	3072	3072
15°	3078	3106	3174
20°	3082	3179	3235
25°	3095	3225	3317
30°	3097	3269	3382
35°	3090	3297	3425
40°	3076	3304	3457
45°	3056	3295	3460
50°	3027	3280	3442
55°	2994	3234	3392
60°	2940	3150	3320
65°	2848	3032	3203
70°	2684	2856	3005
75°	2464	2617	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°	221.1	6.2
50°-60°	203.8	5.7
60°-70°	156.6	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°	412.6	11.5
130°-140°	438.9	12.2
140°-150°	403.9	11.2
150°-160°	319.8	8.9
160°-170°	203.0	5.7
170°-180°	69.6	1.9
0°-30°	307.2	8.6
0°-40°	514.6	14.3
0°-60°	939.5	26.2
0°-90°	1208.2	33.6
90°-120°	536.1	14.9
90°-150°	1791.5	49.9
90°-180°	2384.0	66.4
0°-180°	3592.2	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°	348	348	362	369	372	160
35°	314	319	334	343	348	196
45°	268	275	289	298	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	505	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	721	71
180°	736	736	736	736	736	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	375.6	375.6	375.6	375.6	375.6
2.5°	378.9	375.6	376.5	376.5	371.6
5°	378.0	374.7	376.5	375.6	373.2
7.5°	376.5	374.0	376.5	376.5	374.7
10°	374.7	372.4	374.7	375.6	374.7
12.5°	372.4	370.0	374.0	375.6	376.5
15°	368.3	366.7	371.6	378.0	379.8
17.5°	364.4	363.6	370.9	378.0	378.9
20°	358.7	358.7	370.0	375.6	376.5
22.5°	354.0	354.0	366.7	372.4	375.6
25°	347.5	348.2	362.0	369.3	372.4
27.5°	340.2	342.6	356.2	364.4	367.6
30°	332.2	336.2	350.7	358.7	362.8
32.5°	322.6	328.0	342.6	350.7	354.7
35°	313.5	319.3	334.5	342.6	347.5
37.5°	302.3	309.5	324.9	332.9	338.6
40°	291.9	299.2	313.5	322.6	328.0
42.5°	279.7	287.7	301.5	310.4	316.0
45°	267.7	274.8	288.6	297.5	303.1
47.5°	254.7	262.1	275.8	283.9	289.3
50°	241.0	249.0	261.2	269.2	274.1
52.5°	227.2	234.5	245.9	254.0	258.8
55°	212.7	219.2	229.8	237.1	241.0
57.5°	197.4	203.9	212.7	220.1	224.1
60°	182.1	186.9	195.1	202.3	205.6
62.5°	166.0	170.2	177.3	183.1	186.9
65°	149.1	152.4	158.7	164.4	167.7
67.5°	131.5	134.6	140.2	145.1	147.5
70°	113.7	116.8	121.0	124.9	127.3
72.5°	96.6	98.3	102.4	105.7	107.2
75°	79.0	80.6	83.9	87.0	87.9
77.5°	62.9	63.7	66.2	67.8	68.5
80°	46.0	47.6	49.2	49.9	50.9
82.5°	31.4	32.3	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	83.9	91.2	96.6	99.2
102.5°	113.7	118.4	129.0	137.1	141.1
105°	148.4	154.8	169.3	179.8	184.6
107.5°	183.8	192.0	210.5	222.5	228.9
110°	219.2	229.8	249.9	265.9	270.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	254.7	265.9	290.2	307.9	316.8
115°	290.2	302.3	328.0	348.2	358.0
117.5°	324.1	336.9	365.1	387.8	396.5
120°	356.2	370.0	400.7	424.1	434.5
122.5°	388.5	401.5	433.7	458.6	471.7
125°	419.2	432.1	465.2	490.9	504.6
127.5°	448.3	460.2	495.0	521.5	534.4
130°	476.4	487.7	523.1	549.1	563.5
132.5°	503.0	513.5	549.1	574.0	589.4
135°	528.9	536.9	573.2	598.1	612.7
137.5°	552.9	558.7	594.2	619.2	632.9
140°	577.2	578.9	613.4	636.8	651.3
142.5°	599.0	598.1	631.2	653.7	667.5
145°	619.2	616.7	648.1	668.2	680.4
147.5°	638.4	632.9	662.6	679.7	690.8
150°	655.3	648.1	673.9	690.8	700.5
152.5°	669.8	661.7	683.5	698.9	708.5
155°	684.4	674.8	692.4	706.9	715.1
157.5°	697.3	685.1	698.9	711.8	718.4
160°	708.5	696.6	705.3	715.1	720.0
162.5°	718.4	706.2	710.2	715.8	720.0
165°	726.4	715.1	715.1	717.4	720.0
167.5°	732.7	723.1	718.4	719.1	720.0
170°	738.4	728.7	723.8	719.1	718.4
172.5°	742.5	732.7	728.7	722.2	717.4
175°	745.6	736.9	731.8	726.4	720.7
177.5°	746.5	739.2	735.1	729.6	724.7
180°	736.0	736.0	736.0	736.0	736.0

(END OF REPORT)