

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: P253544

Luminaire Tested: **J3-FL-40L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253544
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.7 lumens
Efficiency: N/A
Efficacy: 123.5 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

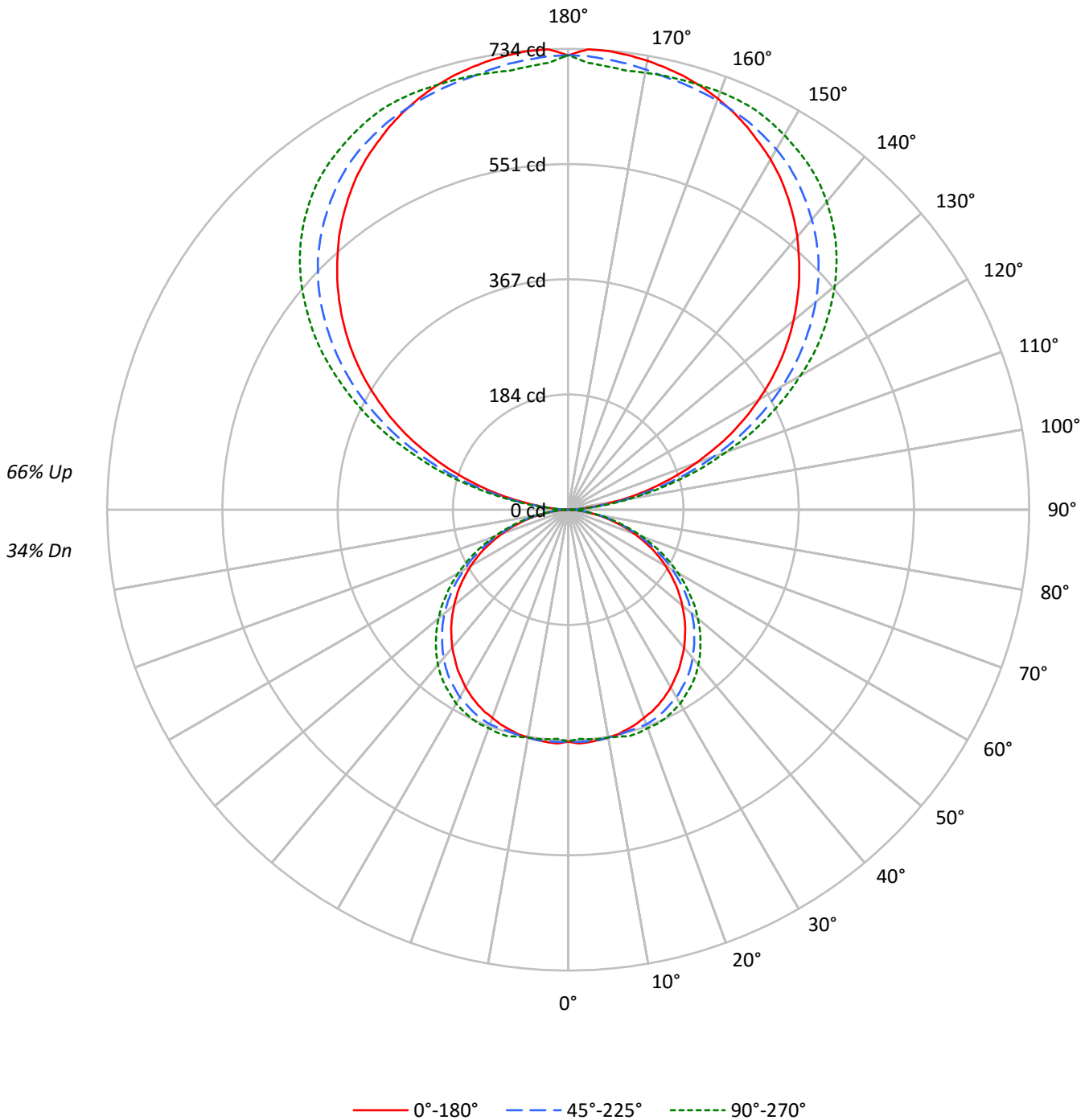
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2982	2982	2982
5°	3013	3000	2974
10°	3021	3021	3021
15°	3027	3054	3122
20°	3030	3126	3180
25°	3044	3171	3263
30°	3045	3214	3326
35°	3038	3241	3368
40°	3025	3249	3400
45°	3005	3240	3402
50°	2977	3226	3386
55°	2944	3181	3336
60°	2890	3098	3265
65°	2800	2982	3152
70°	2639	2809	2955
75°	2424	2573	2695
80°	2106	2250	2325
85°	1686	1751	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.0
10°-20°	103.6	2.9
20°-30°	163.2	4.6
30°-40°	204.0	5.8
40°-50°	217.4	6.2
50°-60°	200.5	5.7
60°-70°	154.0	4.4
70°-80°	87.2	2.5
80°-90°	23.0	0.7
90°-100°	37.0	1.0
100°-110°	174.3	4.9
110°-120°	315.9	8.9
120°-130°	405.8	11.5
130°-140°	431.7	12.2
140°-150°	397.2	11.2
150°-160°	314.5	8.9
160°-170°	199.7	5.7
170°-180°	68.5	1.9
0°-30°	302.1	8.6
0°-40°	506.1	14.3
0°-60°	923.9	26.2
0°-90°	1188.1	33.6
90°-120°	527.2	14.9
90°-150°	1761.9	49.9
90°-180°	2345.0	66.4
0°-180°	3532.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	372	368	370	369	367	35
15°	362	361	365	372	374	102
25°	342	342	356	363	366	157
35°	308	314	329	337	342	193
45°	263	270	284	292	298	203
55°	209	216	226	233	237	187
65°	147	150	156	162	165	145
75°	78	79	82	86	86	83
85°	18	19	19	20	20	21
90°	1	1	1	0	0	2
95°	24	25	28	29	31	32
105°	146	152	166	177	182	154
115°	285	297	323	342	352	281
125°	412	425	458	483	496	368
135°	520	528	564	588	603	401
145°	609	606	637	657	669	381
155°	673	664	681	695	703	310
165°	714	703	703	706	708	202
175°	733	725	720	714	709	70
180°	724	724	724	724	724	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	369.4	369.4	369.4	369.4	369.4
2.5°	372.6	369.4	370.2	370.2	365.4
5°	371.8	368.5	370.2	369.4	367.0
7.5°	370.2	367.8	370.2	370.2	368.5
10°	368.5	366.3	368.5	369.4	368.5
12.5°	366.3	363.9	367.8	369.4	370.2
15°	362.2	360.6	365.4	371.8	373.5
17.5°	358.4	357.5	364.7	371.8	372.6
20°	352.7	352.7	363.9	369.4	370.2
22.5°	348.1	348.1	360.6	366.3	369.4
25°	341.7	342.5	356.0	363.2	366.3
27.5°	334.6	337.0	350.3	358.4	361.5
30°	326.7	330.6	344.8	352.7	356.8
32.5°	317.2	322.6	337.0	344.8	348.8
35°	308.3	314.0	328.9	337.0	341.7
37.5°	297.3	304.4	319.5	327.4	333.0
40°	287.0	294.2	308.3	317.2	322.6
42.5°	275.1	283.0	296.5	305.2	310.7
45°	263.2	270.3	283.8	292.5	298.0
47.5°	250.5	257.7	271.3	279.1	284.5
50°	237.0	244.9	256.9	264.8	269.6
52.5°	223.5	230.6	241.8	249.8	254.5
55°	209.2	215.6	226.0	233.2	237.0
57.5°	194.1	200.5	209.2	216.4	220.4
60°	179.0	183.8	191.9	198.9	202.2
62.5°	163.3	167.3	174.4	180.0	183.8
65°	146.6	149.9	156.1	161.7	165.0
67.5°	129.3	132.4	137.9	142.7	145.1
70°	111.8	114.9	119.0	122.8	125.2
72.5°	95.0	96.7	100.7	103.9	105.5
75°	77.7	79.2	82.5	85.6	86.4
77.5°	61.9	62.6	65.1	66.7	67.4
80°	45.3	46.8	48.4	49.1	50.0
82.5°	30.9	31.7	32.4	33.3	34.0
85°	18.2	18.9	18.9	19.9	19.9
87.5°	7.9	8.7	8.7	8.7	8.7
90°	0.8	0.8	0.8	0.0	0.0
92.5°	7.9	7.9	8.7	9.4	10.3
95°	24.5	25.4	27.8	29.3	30.9
97.5°	49.1	50.8	55.4	59.5	61.0
100°	79.2	82.5	89.7	95.0	97.6
102.5°	111.8	116.5	126.9	134.8	138.7
105°	145.9	152.3	166.5	176.8	181.6
107.5°	180.7	188.8	207.0	218.8	225.2
110°	215.6	226.0	245.7	261.5	266.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	250.5	261.5	285.4	302.8	311.6
115°	285.4	297.3	322.6	342.5	352.0
117.5°	318.8	331.3	359.1	381.4	390.0
120°	350.3	363.9	394.1	417.0	427.3
122.5°	382.1	394.9	426.5	451.0	463.8
125°	412.2	424.9	457.5	482.7	496.3
127.5°	440.9	452.6	486.8	512.9	525.6
130°	468.5	479.6	514.5	540.0	554.2
132.5°	494.7	505.0	540.0	564.5	579.6
135°	520.1	528.0	563.7	588.2	602.6
137.5°	543.8	549.4	584.4	608.9	622.4
140°	567.6	569.3	603.3	626.3	640.5
142.5°	589.0	588.2	620.8	642.9	656.4
145°	608.9	606.5	637.4	657.1	669.1
147.5°	627.8	622.4	651.6	668.4	679.4
150°	644.4	637.4	662.8	679.4	688.8
152.5°	658.7	650.8	672.2	687.3	696.7
155°	673.1	663.6	681.0	695.2	703.2
157.5°	685.7	673.8	687.3	700.0	706.5
160°	696.7	685.0	693.6	703.2	708.0
162.5°	706.5	694.5	698.4	703.9	708.0
165°	714.4	703.2	703.2	705.5	708.0
167.5°	720.6	711.1	706.5	707.2	708.0
170°	726.2	716.6	711.8	707.2	706.5
172.5°	730.2	720.6	716.6	710.3	705.5
175°	733.3	724.7	719.7	714.4	708.7
177.5°	734.1	726.9	723.0	717.5	712.7
180°	723.8	723.8	723.8	723.8	723.8

(END OF REPORT)