

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: P253541

Luminaire Tested: **J3-FL-80L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253541  
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-80L93050-1D-UNV-W2A-W-4 (3500K)  
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 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6502.1 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

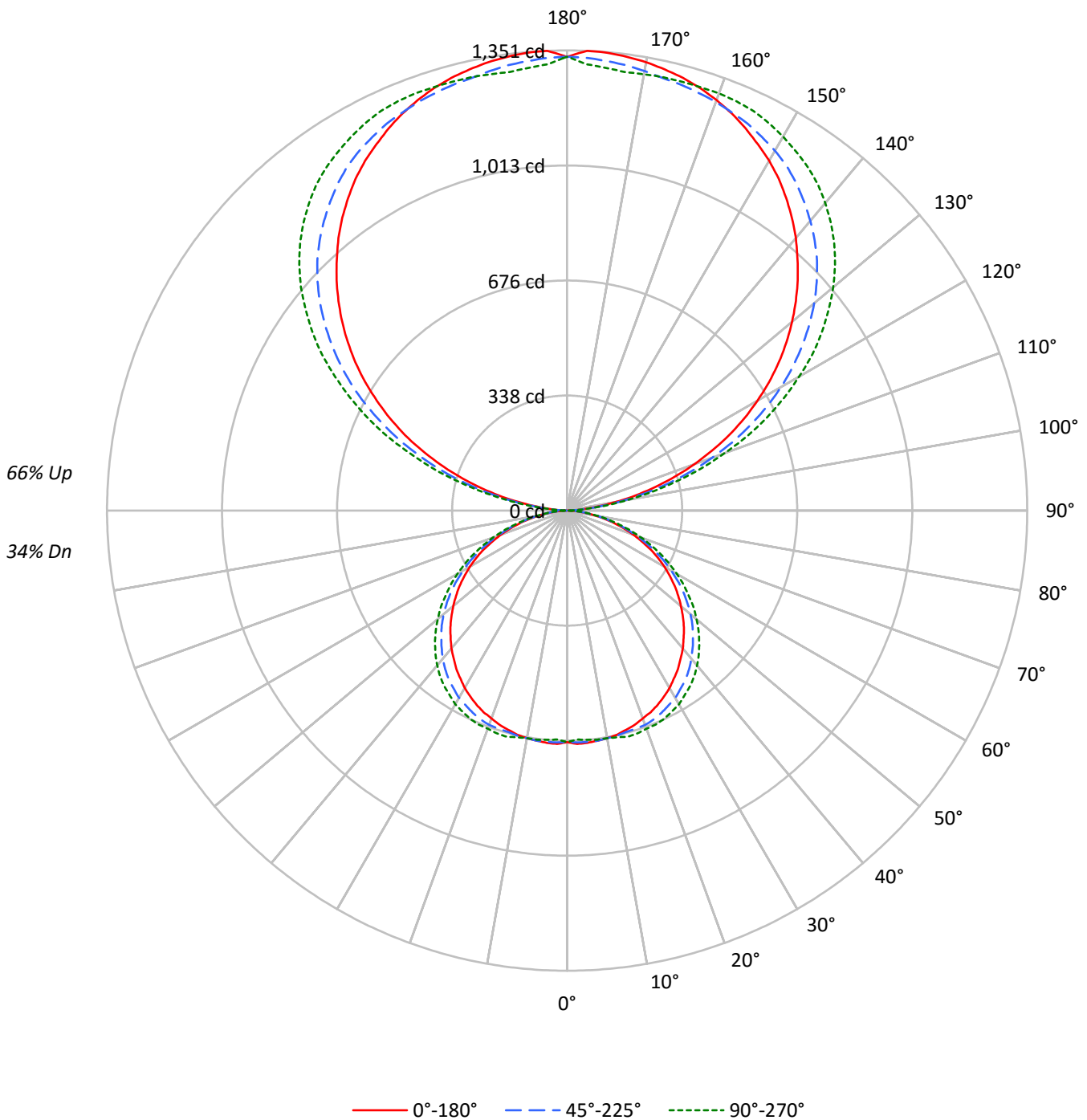
Input Watts (W): 63.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5489	5489	5489
5°	5545	5522	5474
10°	5560	5560	5560
15°	5571	5621	5745
20°	5577	5753	5854
25°	5603	5836	6005
30°	5604	5917	6123
35°	5593	5966	6199
40°	5567	5981	6257
45°	5531	5964	6263
50°	5478	5938	6231
55°	5420	5855	6139
60°	5322	5703	6008
65°	5156	5488	5799
70°	4858	5169	5438
75°	4460	4735	4963
80°	3873	4138	4282
85°	3103	3223	3390



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	1.0
10°-20°	190.8	2.9
20°-30°	300.4	4.6
30°-40°	375.4	5.8
40°-50°	400.1	6.2
50°-60°	369.0	5.7
60°-70°	283.4	4.4
70°-80°	160.5	2.5
80°-90°	42.3	0.7
90°-100°	68.2	1.0
100°-110°	320.8	4.9
110°-120°	581.4	8.9
120°-130°	746.8	11.5
130°-140°	794.5	12.2
140°-150°	731.1	11.2
150°-160°	578.9	8.9
160°-170°	367.5	5.7
170°-180°	126.1	1.9
0°-30°	556.1	8.6
0°-40°	931.5	14.3
0°-60°	1700.6	26.2
0°-90°	2186.8	33.6
90°-120°	970.4	14.9
90°-150°	3242.8	49.9
90°-180°	4315.0	66.4
0°-180°	6502.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	684	678	681	680	676	65
15°	667	664	673	684	687	188
25°	629	630	655	668	674	290
35°	568	578	605	620	629	355
45°	484	497	522	538	549	374
55°	385	397	416	429	436	344
65°	270	276	287	298	304	266
75°	143	146	152	158	159	152
85°	34	35	35	37	37	38
90°	2	2	2	0	0	4
95°	45	47	51	54	57	59
105°	269	280	306	325	334	284
115°	525	547	594	630	648	518
125°	759	782	842	888	913	677
135°	957	972	1037	1083	1109	738
145°	1121	1116	1173	1210	1232	701
155°	1239	1221	1253	1280	1294	571
165°	1315	1294	1294	1298	1303	371
175°	1350	1334	1325	1315	1304	128
180°	1332	1332	1332	1332	1332	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	679.9	679.9	679.9	679.9	679.9
2.5°	685.8	679.9	681.4	681.4	672.6
5°	684.3	678.3	681.4	679.9	675.5
7.5°	681.4	677.0	681.4	681.4	678.3
10°	678.3	674.2	678.3	679.9	678.3
12.5°	674.2	669.7	677.0	679.9	681.4
15°	666.6	663.8	672.6	684.3	687.4
17.5°	659.6	658.1	671.3	684.3	685.8
20°	649.2	649.2	669.7	679.9	681.4
22.5°	640.7	640.7	663.8	674.2	679.9
25°	629.0	630.3	655.2	668.4	674.2
27.5°	615.8	620.2	644.8	659.6	665.3
30°	601.2	608.5	634.7	649.2	656.8
32.5°	583.9	593.7	620.2	634.7	642.0
35°	567.5	577.9	605.4	620.2	629.0
37.5°	547.3	560.2	588.0	602.5	612.9
40°	528.3	541.6	567.5	583.9	593.7
42.5°	506.3	520.8	545.7	561.8	571.9
45°	484.5	497.4	522.4	538.4	548.6
47.5°	461.1	474.3	499.3	513.8	523.7
50°	436.2	450.7	472.8	487.3	496.1
52.5°	411.3	424.5	445.0	459.8	468.4
55°	385.1	396.8	416.0	429.2	436.2
57.5°	357.3	369.0	385.1	398.3	405.6
60°	329.6	338.4	353.2	366.1	372.1
62.5°	300.5	308.0	321.0	331.4	338.4
65°	269.9	275.8	287.3	297.6	303.6
67.5°	238.0	243.7	253.8	262.6	267.0
70°	205.8	211.5	219.0	226.0	230.4
72.5°	174.9	178.0	185.3	191.2	194.1
75°	143.0	145.8	151.8	157.5	159.1
77.5°	113.9	115.2	119.9	122.7	124.0
80°	83.3	86.2	89.0	90.3	92.1
82.5°	56.8	58.4	59.7	61.2	62.5
85°	33.5	34.8	34.8	36.6	36.6
87.5°	14.5	16.1	16.1	16.1	16.1
90°	1.6	1.6	1.6	0.0	0.0
92.5°	14.5	14.5	16.1	17.4	18.9
95°	45.2	46.7	51.1	54.0	56.8
97.5°	90.3	93.4	102.0	109.5	112.4
100°	145.8	151.8	165.0	174.9	179.6
102.5°	205.8	214.3	233.5	248.1	255.3
105°	268.6	280.2	306.5	325.4	334.2
107.5°	332.7	347.5	380.9	402.7	414.4
110°	396.8	416.0	452.3	481.4	490.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	461.1	481.4	525.2	557.4	573.5
115°	525.2	547.3	593.7	630.3	647.9
117.5°	586.7	609.8	660.9	701.9	717.8
120°	644.8	669.7	725.3	767.6	786.5
122.5°	703.2	726.8	785.0	830.1	853.7
125°	758.8	782.1	842.0	888.5	913.4
127.5°	811.4	833.0	896.0	944.0	967.4
130°	862.3	882.8	946.9	993.8	1020.1
132.5°	910.6	929.5	993.8	1039.0	1066.8
135°	957.3	971.8	1037.4	1082.6	1109.1
137.5°	1000.9	1011.2	1075.6	1120.7	1145.7
140°	1044.7	1047.8	1110.4	1152.7	1178.9
142.5°	1084.2	1082.6	1142.5	1183.3	1208.2
145°	1120.7	1116.3	1173.2	1209.5	1231.5
147.5°	1155.5	1145.7	1199.4	1230.2	1250.5
150°	1186.1	1173.2	1219.9	1250.5	1267.9
152.5°	1212.3	1197.8	1237.3	1265.0	1282.4
155°	1238.8	1221.4	1253.3	1279.5	1294.3
157.5°	1262.2	1240.1	1265.0	1288.4	1300.3
160°	1282.4	1260.9	1276.7	1294.3	1303.2
162.5°	1300.3	1278.3	1285.5	1295.6	1303.2
165°	1314.8	1294.3	1294.3	1298.5	1303.2
167.5°	1326.3	1308.9	1300.3	1301.6	1303.2
170°	1336.6	1319.0	1310.2	1301.6	1300.3
172.5°	1343.9	1326.3	1319.0	1307.3	1298.5
175°	1349.6	1333.8	1324.7	1314.8	1304.5
177.5°	1351.2	1337.9	1330.7	1320.5	1311.7
180°	1332.2	1332.2	1332.2	1332.2	1332.2

(END OF REPORT)