

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: P253553

Luminaire Tested: **J3-FL-80L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253553
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 (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: 7146.7 lumens
Efficiency: N/A
Efficacy: 110.1 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

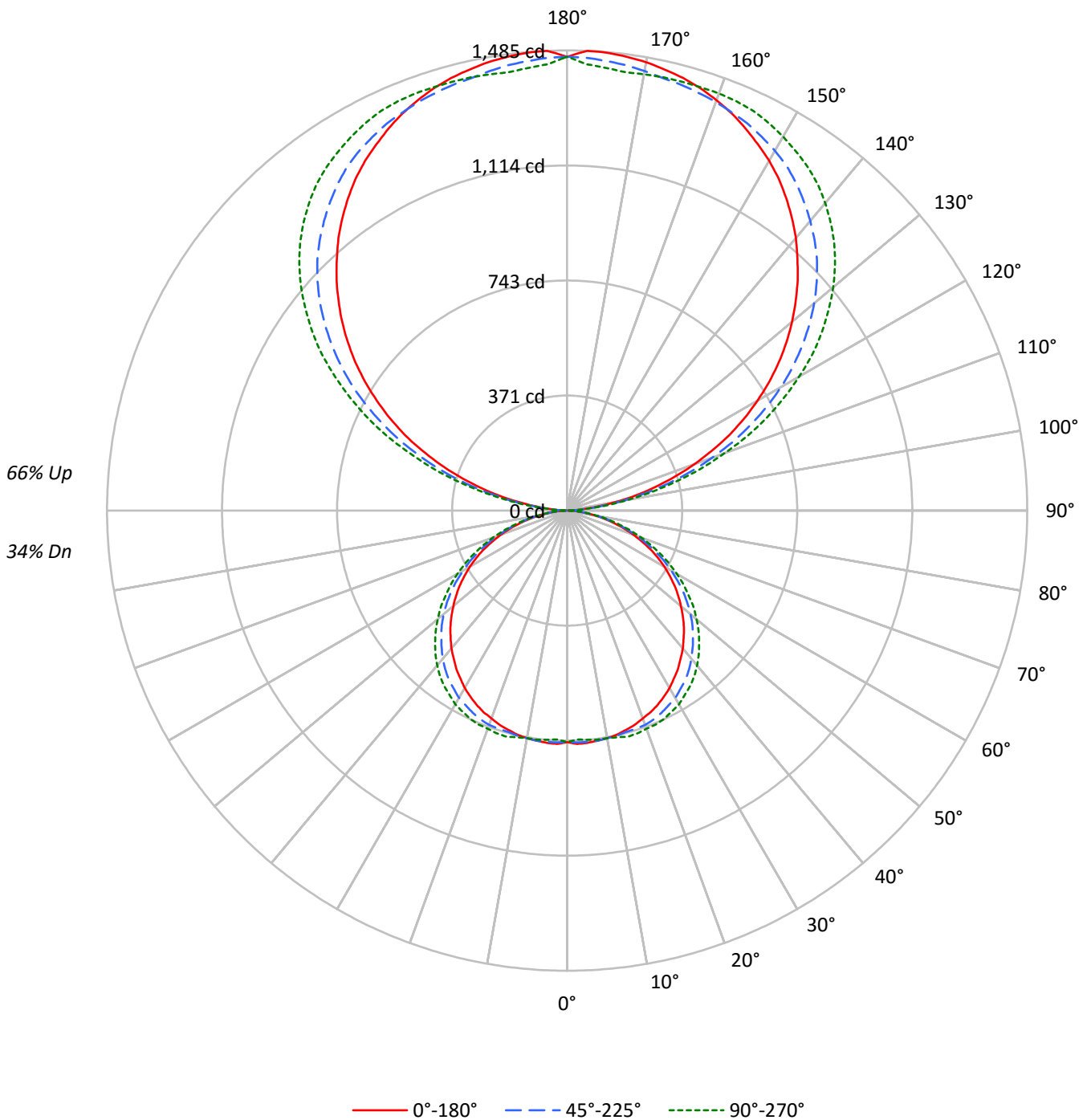
Input Watts (W): 64.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6033	6033	6033
5°	6095	6070	6016
10°	6112	6112	6112
15°	6124	6179	6314
20°	6131	6324	6435
25°	6159	6415	6600
30°	6160	6503	6729
35°	6148	6558	6814
40°	6120	6574	6877
45°	6079	6554	6883
50°	6021	6527	6849
55°	5958	6435	6747
60°	5848	6268	6604
65°	5666	6031	6374
70°	5339	5681	5979
75°	4903	5206	5452
80°	4259	4547	4709
85°	3409	3538	3724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.0
10°-20°	209.7	2.9
20°-30°	330.2	4.6
30°-40°	412.6	5.8
40°-50°	439.8	6.2
50°-60°	405.6	5.7
60°-70°	311.5	4.4
70°-80°	176.5	2.5
80°-90°	46.5	0.7
90°-100°	74.9	1.0
100°-110°	352.6	4.9
110°-120°	639.1	8.9
120°-130°	820.9	11.5
130°-140°	873.3	12.2
140°-150°	803.5	11.2
150°-160°	636.3	8.9
160°-170°	404.0	5.7
170°-180°	138.6	1.9
0°-30°	611.2	8.6
0°-40°	1023.8	14.3
0°-60°	1869.2	26.2
0°-90°	2403.6	33.6
90°-120°	1066.6	14.9
90°-150°	3564.3	49.9
90°-180°	4743.0	66.4
0°-180°	7146.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	752	746	749	747	742	72
15°	733	730	739	752	756	207
25°	691	693	720	735	741	319
35°	624	635	665	682	691	390
45°	532	547	574	592	603	411
55°	423	436	457	472	479	378
65°	297	303	316	327	334	293
75°	157	160	167	173	175	167
85°	37	38	38	40	40	42
90°	2	2	2	0	0	5
95°	50	51	56	59	62	64
105°	295	308	337	358	367	312
115°	577	602	653	693	712	569
125°	834	860	926	977	1004	744
135°	1052	1068	1140	1190	1219	811
145°	1232	1227	1290	1329	1354	771
155°	1362	1342	1378	1406	1423	628
165°	1445	1423	1423	1427	1432	408
175°	1483	1466	1456	1445	1434	141
180°	1464	1464	1464	1464	1464	



TEST NUMBER: P253553

CATALOG NUMBER: J3-FL-80L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.3	747.3	747.3	747.3	747.3
2.5°	753.8	747.3	749.0	749.0	739.3
5°	752.1	745.6	749.0	747.3	742.4
7.5°	749.0	744.1	749.0	749.0	745.6
10°	745.6	741.0	745.6	747.3	745.6
12.5°	741.0	736.1	744.1	747.3	749.0
15°	732.7	729.6	739.3	752.1	755.5
17.5°	725.0	723.3	737.9	752.1	753.8
20°	713.6	713.6	736.1	747.3	749.0
22.5°	704.2	704.2	729.6	741.0	747.3
25°	691.4	692.8	720.2	734.7	741.0
27.5°	676.8	681.7	708.8	725.0	731.3
30°	660.8	668.8	697.6	713.6	721.9
32.5°	641.7	652.6	681.7	697.6	705.6
35°	623.8	635.2	665.4	681.7	691.4
37.5°	601.5	615.8	646.3	662.3	673.7
40°	580.7	595.2	623.8	641.7	652.6
42.5°	556.5	572.4	599.8	617.5	628.6
45°	532.5	546.8	574.1	591.8	602.9
47.5°	506.8	521.4	548.8	564.7	575.6
50°	479.4	495.4	519.7	535.6	545.3
52.5°	452.1	466.6	489.1	505.4	514.8
55°	423.3	436.1	457.2	471.7	479.4
57.5°	392.7	405.6	423.3	437.8	445.8
60°	362.2	371.9	388.2	402.4	409.0
62.5°	330.3	338.6	352.8	364.2	371.9
65°	296.6	303.2	315.7	327.1	333.7
67.5°	261.5	267.8	278.9	288.6	293.5
70°	226.2	232.5	240.7	248.4	253.3
72.5°	192.2	195.7	203.6	210.2	213.3
75°	157.2	160.3	166.9	173.1	174.8
77.5°	125.2	126.6	131.8	134.9	136.3
80°	91.6	94.7	97.8	99.3	101.3
82.5°	62.5	64.2	65.6	67.3	68.7
85°	36.8	38.2	38.2	40.2	40.2
87.5°	16.0	17.7	17.7	17.7	17.7
90°	1.7	1.7	1.7	0.0	0.0
92.5°	16.0	16.0	17.7	19.1	20.8
95°	49.6	51.3	56.2	59.3	62.5
97.5°	99.3	102.7	112.1	120.4	123.5
100°	160.3	166.9	181.4	192.2	197.4
102.5°	226.2	235.6	256.7	272.7	280.7
105°	295.2	308.0	336.8	357.7	367.4
107.5°	365.6	381.9	418.7	442.7	455.5
110°	436.1	457.2	497.1	529.1	538.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	506.8	529.1	577.3	612.6	630.3
115°	577.3	601.5	652.6	692.8	712.2
117.5°	644.9	670.3	726.4	771.5	788.9
120°	708.8	736.1	797.2	843.7	864.5
122.5°	772.9	798.9	862.8	912.4	938.4
125°	834.0	859.6	925.5	976.6	1004.0
127.5°	891.9	915.5	984.9	1037.6	1063.3
130°	947.8	970.3	1040.8	1092.4	1121.2
132.5°	1000.8	1021.6	1092.4	1142.0	1172.5
135°	1052.2	1068.1	1140.3	1189.9	1219.0
137.5°	1100.1	1111.5	1182.2	1231.9	1259.2
140°	1148.3	1151.7	1220.4	1266.9	1295.7
142.5°	1191.6	1189.9	1255.8	1300.6	1328.0
145°	1231.9	1227.0	1289.5	1329.4	1353.6
147.5°	1270.1	1259.2	1318.3	1352.2	1374.5
150°	1303.7	1289.5	1340.8	1374.5	1393.6
152.5°	1332.5	1316.6	1359.9	1390.4	1409.5
155°	1361.6	1342.5	1377.6	1406.4	1422.7
157.5°	1387.3	1363.1	1390.4	1416.1	1429.2
160°	1409.5	1385.9	1403.3	1422.7	1432.4
162.5°	1429.2	1405.0	1413.0	1424.1	1432.4
165°	1445.2	1422.7	1422.7	1427.2	1432.4
167.5°	1457.7	1438.6	1429.2	1430.6	1432.4
170°	1469.2	1449.8	1440.1	1430.6	1429.2
172.5°	1477.1	1457.7	1449.8	1436.9	1427.2
175°	1483.4	1466.0	1456.0	1445.2	1433.8
177.5°	1485.1	1470.6	1462.6	1451.5	1441.8
180°	1464.3	1464.3	1464.3	1464.3	1464.3

(END OF REPORT)