

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: P253608

Luminaire Tested: **J3-UL-80L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-80L83050-1D-UNV-W2A-W-4 (5000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8476.5 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.43  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

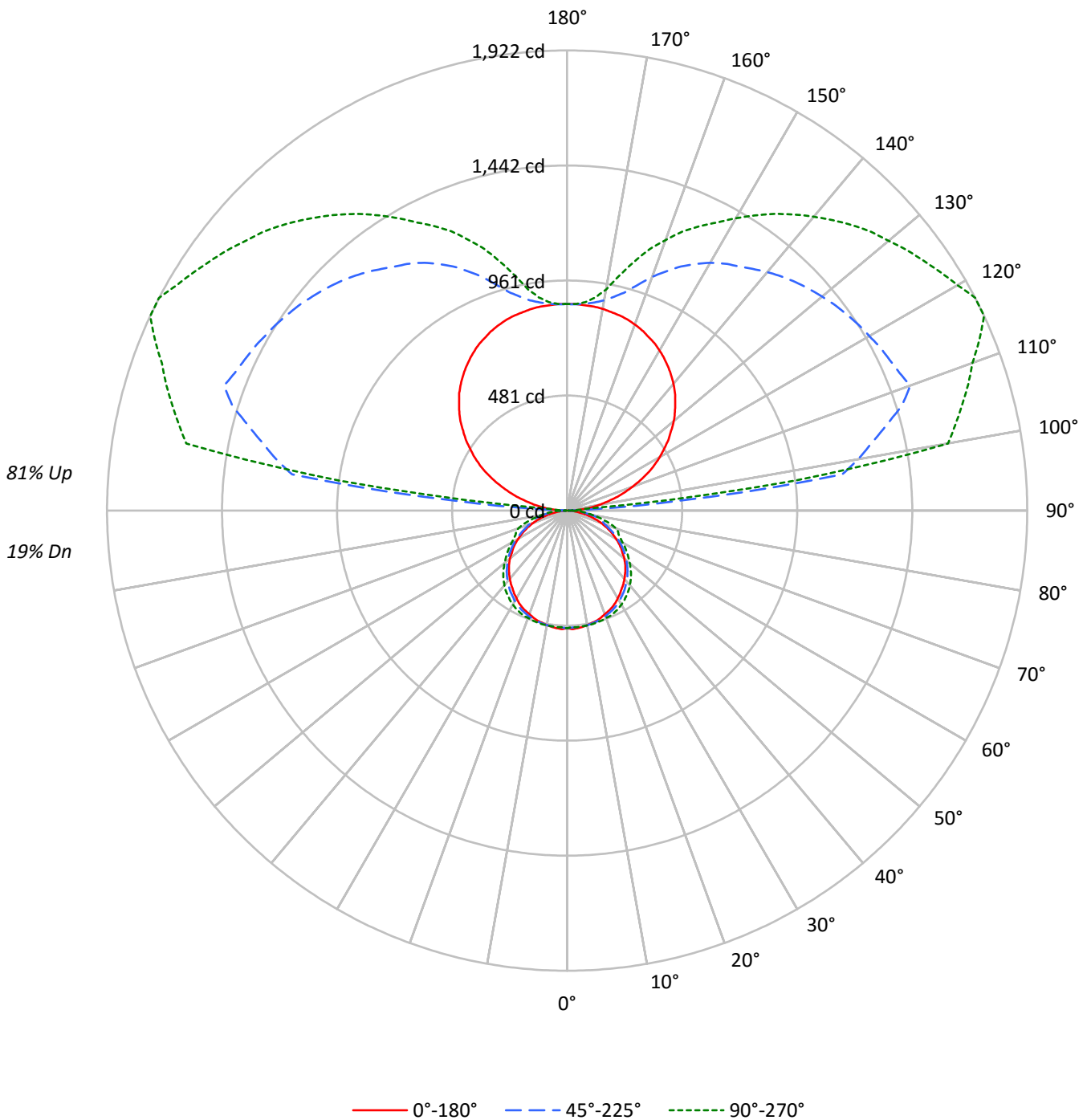
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10				
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8				
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7				
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4				

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

	0°	45°	90°
0°	3968	3968	3968
5°	3994	3960	3960
10°	3983	3983	3995
15°	3979	4003	4038
20°	3957	4029	4102
25°	3966	4053	4178
30°	3940	4071	4228
35°	3916	4069	4262
40°	3921	4070	4292
45°	3929	4072	4313
50°	3916	4057	4286
55°	3873	4032	4289
60°	3809	3991	4308
65°	3729	3943	4533
70°	3548	3977	5105
75°	3284	4557	5125
80°	2808	4635	5091
85°	2214	5206	5854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.7	0.6
10°-20°	135.7	1.6
20°-30°	210.3	2.5
30°-40°	259.4	3.1
40°-50°	276.5	3.3
50°-60°	257.8	3.0
60°-70°	210.6	2.5
70°-80°	145.1	1.7
80°-90°	57.4	0.7
90°-100°	499.5	5.9
100°-110°	1280.3	15.1
110°-120°	1325.7	15.6
120°-130°	1180.3	13.9
130°-140°	982.8	11.6
140°-150°	748.2	8.8
150°-160°	503.5	5.9
160°-170°	272.9	3.2
170°-180°	83.7	1.0
0°-30°	392.8	4.6
0°-40°	652.2	7.7
0°-60°	1186.5	14.0
0°-90°	1599.6	18.9
90°-120°	3105.5	36.6
90°-150°	6016.8	71.0
90°-180°	6877.0	81.1
0°-180°	8476.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	493	492	489	489	489	47
15°	476	478	479	484	483	134
25°	445	448	455	465	469	205
35°	397	403	413	426	432	249
45°	344	347	357	369	378	265
55°	275	280	286	296	305	246
65°	195	199	206	226	237	192
75°	105	112	146	163	164	111
85°	24	45	56	65	63	28
90°	3	4	6	4	4	8
95°	70	556	466	69	67	70
105°	211	883	1380	1630	1708	222
115°	372	916	1487	1852	1921	366
125°	517	937	1427	1733	1819	461
135°	638	962	1350	1607	1685	493
145°	734	941	1246	1451	1512	460
155°	802	896	1125	1270	1310	370
165°	844	872	945	1039	1074	239
175°	861	865	866	872	874	82
180°	862	862	862	862	862	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	491.5	491.5	491.5	491.5	491.5
2.5°	495.7	492.9	488.7	488.7	487.3
5°	492.9	491.5	488.7	488.7	488.7
7.5°	490.1	490.1	487.3	488.7	487.3
10°	485.9	487.3	485.9	488.7	487.3
12.5°	480.3	483.1	483.1	487.3	485.9
15°	476.1	477.5	478.9	484.5	483.1
17.5°	469.0	471.9	474.7	481.7	481.7
20°	460.6	464.8	469.0	477.5	477.5
22.5°	453.6	457.8	462.0	471.9	474.7
25°	445.2	448.0	455.0	464.8	469.0
27.5°	435.3	438.2	446.6	456.4	462.0
30°	422.7	428.3	436.7	448.0	453.6
32.5°	411.5	417.1	424.1	438.2	443.8
35°	397.4	403.0	412.9	425.5	432.5
37.5°	386.2	391.8	400.2	412.9	421.3
40°	372.1	376.4	386.2	398.8	407.3
42.5°	358.1	363.7	372.1	386.2	393.2
45°	344.1	346.9	356.7	369.3	377.8
47.5°	328.6	331.4	339.8	353.9	359.5
50°	311.8	316.0	323.0	335.6	341.3
52.5°	292.1	297.7	306.1	316.0	323.0
55°	275.2	279.5	286.5	296.3	304.7
57.5°	257.0	261.2	268.2	278.1	286.5
60°	235.9	240.1	247.2	259.8	266.8
62.5°	214.9	220.5	226.1	238.7	251.4
65°	195.2	199.4	206.4	226.1	237.3
67.5°	172.7	178.3	185.4	213.5	230.3
70°	150.3	155.9	168.5	206.4	216.3
72.5°	129.2	133.4	154.5	191.0	193.8
75°	105.3	112.3	146.1	162.9	164.3
77.5°	81.5	91.3	125.0	136.2	137.6
80°	60.4	75.8	99.7	108.1	109.5
82.5°	42.1	64.6	77.2	84.3	84.3
85°	23.9	44.9	56.2	64.6	63.2
87.5°	14.0	29.5	42.1	49.2	47.7
90°	2.8	4.2	5.6	4.2	4.2
92.5°	36.5	118.0	32.3	32.3	30.9
95°	70.2	556.1	466.2	68.8	67.4
97.5°	101.1	675.5	1158.6	1383.3	962.0
100°	136.2	803.3	1234.4	1523.7	1615.0
102.5°	169.9	858.0	1301.8	1570.0	1661.3
105°	210.6	883.3	1380.5	1630.4	1707.7
107.5°	250.0	896.0	1467.5	1682.4	1756.8
110°	289.3	904.4	1525.1	1741.4	1801.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	330.0	910.0	1502.6	1811.6	1863.5
115°	372.1	915.6	1487.2	1852.3	1921.1
117.5°	410.1	919.8	1474.5	1813.0	1922.5
120°	446.6	925.5	1457.7	1784.9	1883.2
122.5°	480.3	932.5	1443.7	1759.6	1850.9
125°	516.8	936.7	1426.8	1732.9	1818.6
127.5°	547.7	942.3	1409.9	1700.6	1787.7
130°	581.4	952.1	1390.3	1672.6	1752.6
132.5°	610.9	959.2	1370.6	1641.7	1723.1
135°	637.6	962.0	1349.6	1606.6	1685.2
137.5°	667.1	960.6	1325.7	1571.4	1644.5
140°	690.9	954.9	1300.4	1533.5	1602.3
142.5°	713.4	950.7	1272.3	1494.2	1558.8
145°	734.5	940.9	1245.6	1450.7	1512.5
147.5°	754.1	931.1	1223.2	1405.7	1461.9
150°	772.4	917.0	1195.1	1353.8	1409.9
152.5°	789.2	905.8	1161.4	1308.8	1356.6
155°	801.9	896.0	1124.9	1269.5	1310.2
157.5°	815.9	888.9	1081.3	1219.0	1262.5
160°	827.1	881.9	1039.2	1161.4	1202.1
162.5°	837.0	876.3	990.1	1105.2	1144.5
165°	844.0	872.1	945.1	1039.2	1074.3
167.5°	849.6	867.9	915.6	970.4	1004.1
170°	855.2	866.5	891.7	924.0	936.7
172.5°	859.4	866.5	876.3	891.7	897.4
175°	860.9	865.1	866.5	872.1	873.5
177.5°	863.7	866.5	862.3	863.7	863.7
180°	862.3	862.3	862.3	862.3	862.3

(END OF REPORT)