

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: P253505

Luminaire Tested: **J3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253505
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-80L83050-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7234.8 lumens
Efficiency: N/A
Efficacy: 116.3 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

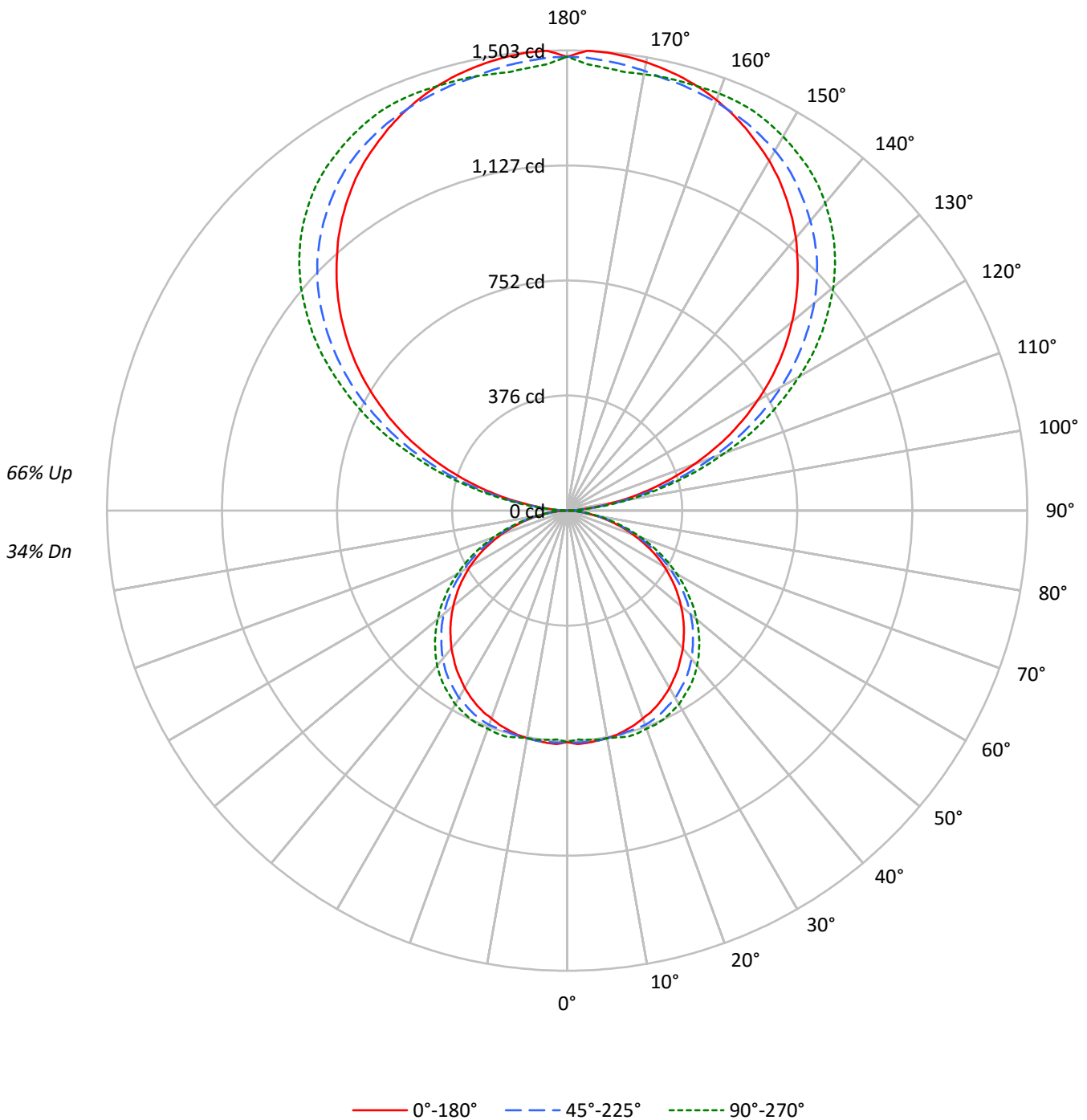
Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6107	6107	6107
5°	6170	6144	6091
10°	6187	6187	6187
15°	6200	6255	6393
20°	6206	6402	6514
25°	6234	6494	6682
30°	6236	6583	6812
35°	6224	6638	6898
40°	6196	6655	6962
45°	6155	6635	6969
50°	6096	6607	6934
55°	6031	6514	6832
60°	5921	6345	6684
65°	5736	6105	6453
70°	5405	5752	6052
75°	4963	5268	5521
80°	4310	4603	4765
85°	3446	3585	3770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.0
10°-20°	212.3	2.9
20°-30°	334.3	4.6
30°-40°	417.7	5.8
40°-50°	445.2	6.2
50°-60°	410.6	5.7
60°-70°	315.3	4.4
70°-80°	178.7	2.5
80°-90°	47.1	0.7
90°-100°	75.8	1.0
100°-110°	356.9	4.9
110°-120°	646.9	8.9
120°-130°	831.0	11.5
130°-140°	884.0	12.2
140°-150°	813.4	11.2
150°-160°	644.1	8.9
160°-170°	408.9	5.7
170°-180°	140.3	1.9
0°-30°	618.7	8.6
0°-40°	1036.4	14.3
0°-60°	1892.2	26.2
0°-90°	2433.3	33.6
90°-120°	1079.7	14.9
90°-150°	3608.2	49.9
90°-180°	4802.0	66.4
0°-180°	7234.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	761	755	758	756	752	72
15°	742	739	748	761	765	210
25°	700	701	729	744	750	323
35°	632	643	674	690	700	395
45°	539	554	581	599	610	416
55°	428	442	463	478	485	382
65°	300	307	320	331	338	296
75°	159	162	169	175	177	169
85°	37	39	39	41	41	42
90°	2	2	2	0	0	5
95°	50	52	57	60	63	65
105°	299	312	341	362	372	316
115°	584	609	661	701	721	576
125°	844	870	937	989	1016	753
135°	1065	1081	1154	1205	1234	821
145°	1247	1242	1305	1346	1370	780
155°	1378	1359	1395	1424	1440	636
165°	1463	1440	1440	1445	1450	413
175°	1502	1484	1474	1463	1452	143
180°	1482	1482	1482	1482	1482	



TEST NUMBER: P253505

CATALOG NUMBER: J3-FL-80L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.5	756.5	756.5	756.5	756.5
2.5°	763.1	756.5	758.2	758.2	748.4
5°	761.4	754.7	758.2	756.5	751.6
7.5°	758.2	753.3	758.2	758.2	754.7
10°	754.7	750.1	754.7	756.5	754.7
12.5°	750.1	745.2	753.3	756.5	758.2
15°	741.8	738.6	748.4	761.4	764.9
17.5°	734.0	732.2	747.0	761.4	763.1
20°	722.4	722.4	745.2	756.5	758.2
22.5°	712.9	712.9	738.6	750.1	756.5
25°	699.9	701.3	729.1	743.8	750.1
27.5°	685.2	690.1	717.5	734.0	740.3
30°	669.0	677.1	706.2	722.4	730.8
32.5°	649.6	660.6	690.1	706.2	714.3
35°	631.5	643.0	673.6	690.1	699.9
37.5°	608.9	623.4	654.3	670.4	682.0
40°	587.9	602.6	631.5	649.6	660.6
42.5°	563.3	579.5	607.2	625.1	636.4
45°	539.1	553.5	581.2	599.1	610.4
47.5°	513.1	527.8	555.5	571.7	582.7
50°	485.4	501.5	526.1	542.2	552.1
52.5°	457.6	472.4	495.2	511.6	521.2
55°	428.5	441.5	462.8	477.6	485.4
57.5°	397.6	410.6	428.5	443.2	451.3
60°	366.7	376.5	393.0	407.4	414.0
62.5°	334.4	342.7	357.2	368.7	376.5
65°	300.3	306.9	319.6	331.2	337.8
67.5°	264.8	271.1	282.4	292.2	297.1
70°	229.0	235.3	243.7	251.5	256.4
72.5°	194.6	198.1	206.2	212.8	216.0
75°	159.1	162.3	168.9	175.3	177.0
77.5°	126.8	128.2	133.4	136.6	138.0
80°	92.7	95.9	99.0	100.5	102.5
82.5°	63.2	65.0	66.4	68.1	69.6
85°	37.2	38.7	38.7	40.7	40.7
87.5°	16.2	17.9	17.9	17.9	17.9
90°	1.7	1.7	1.7	0.0	0.0
92.5°	16.2	16.2	17.9	19.3	21.1
95°	50.2	52.0	56.9	60.1	63.2
97.5°	100.5	103.9	113.5	121.8	125.0
100°	162.3	168.9	183.6	194.6	199.8
102.5°	229.0	238.5	259.9	276.0	284.1
105°	298.8	311.8	341.0	362.1	371.9
107.5°	370.2	386.6	423.9	448.1	461.1
110°	441.5	462.8	503.3	535.6	545.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	513.1	535.6	584.4	620.2	638.1
115°	584.4	608.9	660.6	701.3	721.0
117.5°	652.8	678.5	735.4	781.0	798.6
120°	717.5	745.2	807.0	854.1	875.1
122.5°	782.5	808.7	873.4	923.7	949.9
125°	844.3	870.2	936.9	988.6	1016.3
127.5°	902.9	926.8	997.0	1050.4	1076.4
130°	959.5	982.3	1053.6	1105.8	1135.0
132.5°	1013.2	1034.2	1105.8	1156.1	1187.0
135°	1065.1	1081.3	1154.4	1204.6	1234.0
137.5°	1113.6	1125.2	1196.8	1247.0	1274.8
140°	1162.4	1165.9	1235.5	1282.6	1311.7
142.5°	1206.3	1204.6	1271.3	1316.6	1344.3
145°	1247.0	1242.1	1305.4	1345.8	1370.3
147.5°	1285.7	1274.8	1334.5	1368.9	1391.4
150°	1319.8	1305.4	1357.3	1391.4	1410.7
152.5°	1349.0	1332.8	1376.7	1407.6	1426.9
155°	1378.4	1359.1	1394.6	1423.7	1440.2
157.5°	1404.4	1379.9	1407.6	1433.6	1446.8
160°	1426.9	1403.0	1420.6	1440.2	1450.0
162.5°	1446.8	1422.3	1430.4	1441.6	1450.0
165°	1463.0	1440.2	1440.2	1444.8	1450.0
167.5°	1475.7	1456.4	1446.8	1448.3	1450.0
170°	1487.3	1467.6	1457.8	1448.3	1446.8
172.5°	1495.3	1475.7	1467.6	1454.6	1444.8
175°	1501.7	1484.1	1474.0	1463.0	1451.5
177.5°	1503.4	1488.7	1480.6	1469.4	1459.5
180°	1482.4	1482.4	1482.4	1482.4	1482.4

(END OF REPORT)