

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: P253606

Luminaire Tested: **J3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253606
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8403.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

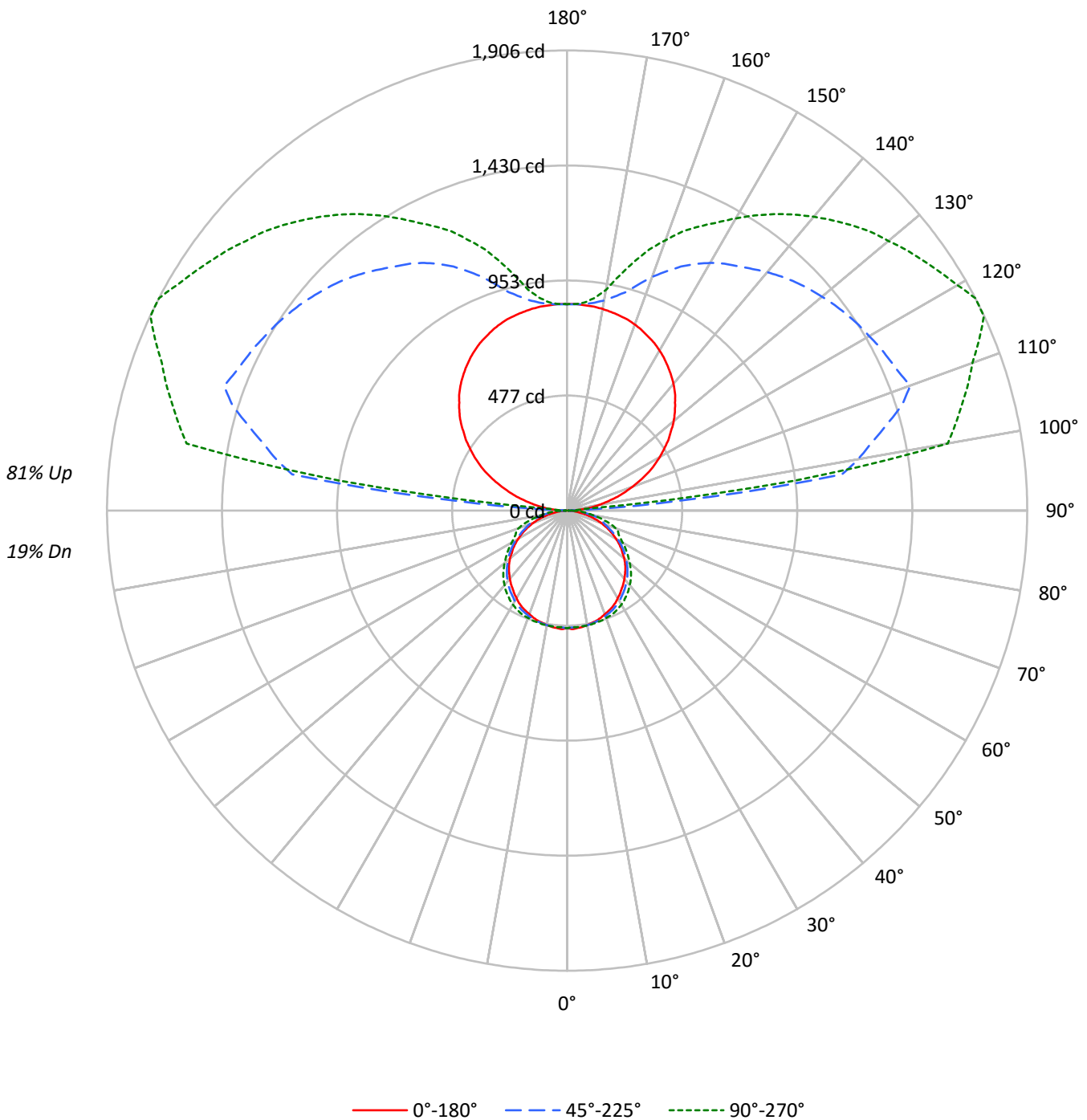
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3934	3934	3934
5°	3960	3926	3926
10°	3949	3949	3960
15°	3944	3967	4003
20°	3923	3995	4066
25°	3931	4018	4142
30°	3906	4036	4192
35°	3883	4034	4226
40°	3888	4034	4254
45°	3894	4037	4276
50°	3882	4021	4249
55°	3841	3997	4252
60°	3777	3956	4271
65°	3696	3908	4495
70°	3517	3944	5061
75°	3256	4517	5081
80°	2785	4593	5049
85°	2195	5159	5798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	0.6
10°-20°	134.6	1.6
20°-30°	208.5	2.5
30°-40°	257.2	3.1
40°-50°	274.1	3.3
50°-60°	255.5	3.0
60°-70°	208.8	2.5
70°-80°	143.9	1.7
80°-90°	56.9	0.7
90°-100°	495.2	5.9
100°-110°	1269.2	15.1
110°-120°	1314.2	15.6
120°-130°	1170.1	13.9
130°-140°	974.2	11.6
140°-150°	741.8	8.8
150°-160°	499.1	5.9
160°-170°	270.6	3.2
170°-180°	83.0	1.0
0°-30°	389.4	4.6
0°-40°	646.5	7.7
0°-60°	1176.2	14.0
0°-90°	1585.7	18.9
90°-120°	3078.6	36.6
90°-150°	5964.6	71.0
90°-180°	6817.0	81.1
0°-180°	8403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	489	487	484	484	484	46
15°	472	473	475	480	479	133
25°	441	444	451	461	465	203
35°	394	400	409	422	429	247
45°	341	344	354	366	374	263
55°	273	277	284	294	302	244
65°	194	198	205	224	235	190
75°	104	111	145	162	163	110
85°	24	44	56	64	63	28
90°	3	4	6	4	4	8
95°	70	551	462	68	67	69
105°	209	876	1368	1616	1693	221
115°	369	908	1474	1836	1904	363
125°	512	929	1414	1718	1803	457
135°	632	954	1338	1593	1671	489
145°	728	933	1235	1438	1499	456
155°	795	888	1115	1258	1299	367
165°	837	864	937	1030	1065	236
175°	853	858	859	864	866	81
180°	855	855	855	855	855	



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CATALOG NUMBER: J3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	487.3	487.3	487.3	487.3	487.3
2.5°	491.4	488.6	484.5	484.5	483.1
5°	488.6	487.3	484.5	484.5	484.5
7.5°	485.9	485.9	483.1	484.5	483.1
10°	481.7	483.1	481.7	484.5	483.1
12.5°	476.1	478.9	478.9	483.1	481.7
15°	471.9	473.3	474.7	480.3	478.9
17.5°	465.0	467.8	470.6	477.5	477.5
20°	456.6	460.8	465.0	473.3	473.3
22.5°	449.7	453.8	458.0	467.8	470.6
25°	441.3	444.1	451.1	460.8	465.0
27.5°	431.6	434.4	442.7	452.5	458.0
30°	419.0	424.6	433.0	444.1	449.7
32.5°	407.9	413.5	420.4	434.4	439.9
35°	394.0	399.6	409.3	421.8	428.8
37.5°	382.8	388.4	396.8	409.3	417.6
40°	368.9	373.1	382.8	395.4	403.7
42.5°	355.0	360.6	368.9	382.8	389.8
45°	341.1	343.9	353.6	366.1	374.5
47.5°	325.8	328.6	336.9	350.8	356.4
50°	309.1	313.2	320.2	332.7	338.3
52.5°	289.6	295.1	303.5	313.2	320.2
55°	272.9	277.0	284.0	293.7	302.1
57.5°	254.8	258.9	265.9	275.6	284.0
60°	233.9	238.1	245.0	257.6	264.5
62.5°	213.0	218.6	224.1	236.7	249.2
65°	193.5	197.7	204.6	224.1	235.3
67.5°	171.2	176.8	183.8	211.6	228.3
70°	149.0	154.5	167.1	204.6	214.4
72.5°	128.1	132.3	153.1	189.3	192.1
75°	104.4	111.4	144.8	161.5	162.9
77.5°	80.7	90.5	123.9	135.0	136.4
80°	59.9	75.2	98.8	107.2	108.6
82.5°	41.8	64.0	76.6	83.5	83.5
85°	23.7	44.5	55.7	64.0	62.6
87.5°	13.9	29.2	41.8	48.7	47.3
90°	2.8	4.2	5.6	4.2	4.2
92.5°	36.2	116.9	32.0	32.0	30.6
95°	69.6	551.3	462.2	68.2	66.8
97.5°	100.2	669.6	1148.5	1371.3	953.6
100°	135.0	796.3	1223.7	1510.5	1601.0
102.5°	168.5	850.6	1290.5	1556.4	1646.9
105°	208.8	875.7	1368.5	1616.3	1692.9
107.5°	247.8	888.2	1454.8	1667.8	1741.6
110°	286.8	896.6	1511.9	1726.3	1786.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.2	902.1	1489.6	1795.9	1847.4
115°	368.9	907.7	1474.3	1836.3	1904.5
117.5°	406.5	911.9	1461.8	1797.3	1905.9
120°	442.7	917.4	1445.1	1769.4	1866.9
122.5°	476.1	924.4	1431.1	1744.4	1834.9
125°	512.3	928.6	1414.4	1717.9	1802.9
127.5°	542.9	934.1	1397.7	1685.9	1772.2
130°	576.4	943.9	1378.2	1658.1	1737.4
132.5°	605.6	950.8	1358.8	1627.4	1708.2
135°	632.0	953.6	1337.9	1592.6	1670.6
137.5°	661.3	952.2	1314.2	1557.8	1630.2
140°	684.9	946.7	1289.1	1520.2	1588.5
142.5°	707.2	942.5	1261.3	1481.3	1545.3
145°	728.1	932.7	1234.8	1438.1	1499.4
147.5°	747.6	923.0	1212.6	1393.6	1449.2
150°	765.7	909.1	1184.7	1342.0	1397.7
152.5°	782.4	897.9	1151.3	1297.5	1344.8
155°	794.9	888.2	1115.1	1258.5	1298.9
157.5°	808.8	881.2	1072.0	1208.4	1251.6
160°	820.0	874.3	1030.2	1151.3	1191.7
162.5°	829.7	868.7	981.5	1095.6	1134.6
165°	836.7	864.5	936.9	1030.2	1065.0
167.5°	842.3	860.4	907.7	962.0	995.4
170°	847.8	859.0	884.0	916.0	928.6
172.5°	852.0	859.0	868.7	884.0	889.6
175°	853.4	857.6	859.0	864.5	865.9
177.5°	856.2	859.0	854.8	856.2	856.2
180°	854.8	854.8	854.8	854.8	854.8

(END OF REPORT)