

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: P253598

Luminaire Tested: **J3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)  
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 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6408.4 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

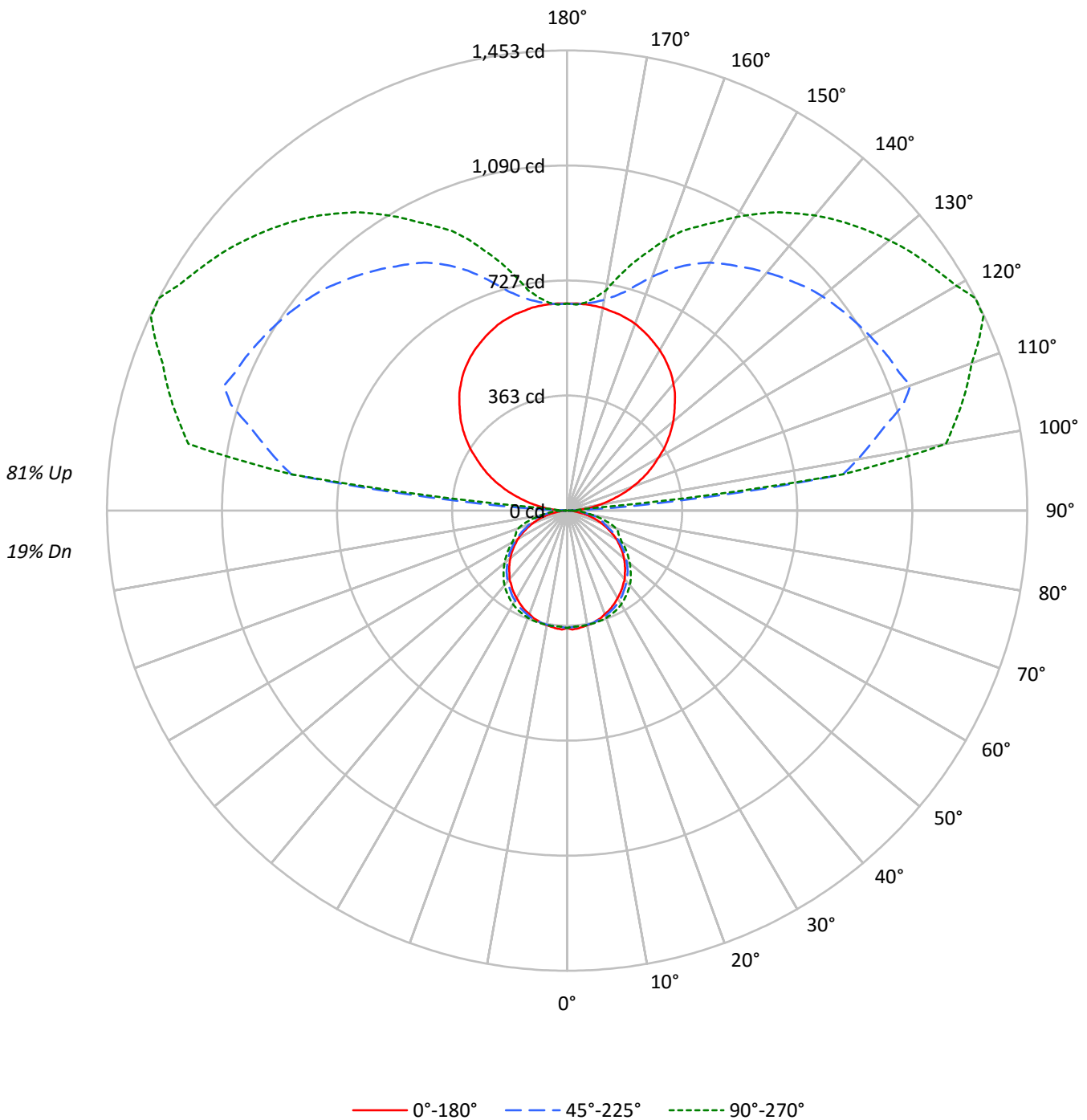
Input Watts (W): 46.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2994	2994	2994
5°	3027	2985	2975
10°	3009	2999	3009
15°	3004	3015	3046
20°	2989	3044	3099
25°	2985	3053	3144
30°	2969	3064	3183
35°	2974	3063	3214
40°	2979	3073	3248
45°	2950	3081	3241
50°	2939	3068	3245
55°	2916	3060	3240
60°	2892	3014	3221
65°	2785	2980	3421
70°	2686	2988	3864
75°	2473	3431	3908
80°	2139	3510	3808
85°	1658	3909	4381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	0.5
10°-20°	102.4	1.6
20°-30°	158.7	2.5
30°-40°	195.9	3.1
40°-50°	208.7	3.3
50°-60°	194.7	3.0
60°-70°	158.7	2.5
70°-80°	109.7	1.7
80°-90°	42.8	0.7
90°-100°	382.9	6.0
100°-110°	967.3	15.1
110°-120°	1000.9	15.6
120°-130°	891.3	13.9
130°-140°	742.6	11.6
140°-150°	565.9	8.8
150°-160°	380.9	5.9
160°-170°	206.5	3.2
170°-180°	63.4	1.0
0°-30°	296.3	4.6
0°-40°	492.2	7.7
0°-60°	895.5	14.0
0°-90°	1206.6	18.8
90°-120°	2351.1	36.7
90°-150°	4551.0	71.0
90°-180°	5202.0	81.2
0°-180°	6408.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	371	371	371	371	371	
5°	374	371	368	370	367	35
15°	359	361	361	364	364	102
25°	335	339	343	350	353	154
35°	302	304	311	322	326	189
45°	258	262	270	279	284	200
55°	207	211	217	224	230	185
65°	146	150	156	170	179	145
75°	79	84	110	124	125	84
85°	18	33	42	47	47	21
90°	3	4	4	3	3	6
95°	54	420	329	52	51	53
105°	159	668	1041	1230	1289	169
115°	279	689	1127	1400	1450	275
125°	388	706	1079	1308	1375	346
135°	481	726	1018	1214	1275	371
145°	556	714	941	1094	1150	348
155°	608	678	850	958	991	280
165°	641	659	716	787	811	181
175°	654	655	656	662	659	62
180°	654	654	654	654	654	



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CATALOG NUMBER: J3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	370.9	370.9	370.9	370.9	370.9
2.5°	376.0	370.9	368.3	369.6	367.1
5°	373.5	370.9	368.3	369.6	367.1
7.5°	370.9	369.6	367.1	369.6	367.1
10°	367.1	367.1	365.8	368.3	367.1
12.5°	365.8	364.5	364.5	367.1	365.8
15°	359.4	360.7	360.7	364.5	364.5
17.5°	355.6	356.8	358.1	363.2	363.2
20°	347.9	351.7	354.3	360.7	360.7
22.5°	342.8	345.3	347.9	355.6	356.8
25°	335.1	338.9	342.8	350.4	353.0
27.5°	327.4	331.3	336.4	345.3	347.9
30°	318.5	323.6	328.7	337.6	341.5
32.5°	310.8	314.6	321.0	331.3	333.8
35°	301.8	304.4	310.8	322.3	326.1
37.5°	291.6	294.2	301.8	312.1	317.2
40°	282.7	285.2	291.6	301.8	308.2
42.5°	269.9	273.7	281.4	290.3	296.7
45°	258.4	262.2	269.9	278.8	283.9
47.5°	246.8	250.7	257.1	266.0	271.1
50°	234.0	237.9	244.3	253.2	258.4
52.5°	221.3	225.1	231.5	239.2	244.3
55°	207.2	211.0	217.4	223.8	230.2
57.5°	193.1	197.0	202.1	209.7	216.1
60°	179.1	181.6	186.7	195.7	199.5
62.5°	163.7	166.3	171.4	180.3	189.3
65°	145.8	149.6	156.0	170.1	179.1
67.5°	130.5	133.0	139.4	159.9	173.9
70°	113.8	117.7	126.6	156.0	163.7
72.5°	97.2	101.0	117.7	143.2	147.1
75°	79.3	84.4	110.0	124.1	125.3
77.5°	62.7	69.1	94.6	102.3	103.6
80°	46.0	57.6	75.5	80.6	81.9
82.5°	30.7	48.6	56.3	62.7	62.7
85°	17.9	33.3	42.2	47.3	47.3
87.5°	10.2	21.7	32.0	37.1	35.8
90°	2.6	3.8	3.8	2.6	2.6
92.5°	29.4	93.4	25.6	24.3	24.3
95°	53.7	419.5	328.7	52.4	51.2
97.5°	76.7	509.0	878.6	1062.8	877.4
100°	102.3	615.2	932.4	1152.3	1215.0
102.5°	130.5	652.3	983.5	1184.3	1250.8
105°	158.6	667.6	1041.1	1230.4	1289.2
107.5°	189.3	677.8	1112.7	1267.5	1325.0
110°	220.0	683.0	1153.6	1313.5	1359.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	249.4	686.8	1135.7	1365.9	1406.9
115°	278.8	689.4	1126.8	1400.5	1450.3
117.5°	305.7	693.2	1115.3	1368.5	1452.9
120°	332.5	697.0	1103.7	1346.7	1419.6
122.5°	361.9	702.1	1091.0	1328.8	1396.6
125°	387.5	706.0	1079.4	1308.4	1374.9
127.5°	413.1	709.8	1065.4	1286.6	1353.1
130°	437.4	718.8	1052.6	1264.9	1327.6
132.5°	459.1	723.9	1037.2	1240.6	1302.0
135°	480.9	726.5	1018.1	1213.7	1275.1
137.5°	503.9	725.2	1000.1	1188.2	1247.0
140°	521.8	723.9	981.0	1157.5	1216.3
142.5°	541.0	720.1	961.8	1126.8	1183.0
145°	556.3	713.7	941.3	1093.5	1149.8
147.5°	571.7	706.0	923.4	1059.0	1110.1
150°	584.5	694.5	904.2	1021.9	1070.5
152.5°	596.0	685.5	878.6	988.6	1028.3
155°	607.5	677.8	850.5	957.9	991.2
157.5°	617.7	672.7	819.8	920.9	956.7
160°	628.0	666.3	785.3	881.2	910.6
162.5°	634.4	662.5	749.5	833.9	858.2
165°	640.8	658.7	716.2	786.6	810.9
167.5°	644.6	656.1	693.2	736.7	758.4
170°	649.7	654.8	675.3	700.9	706.0
172.5°	652.3	654.8	663.8	676.6	677.8
175°	653.5	654.8	656.1	662.5	658.7
177.5°	654.8	656.1	652.3	656.1	651.0
180°	653.5	653.5	653.5	653.5	653.5

(END OF REPORT)