

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: P253450

Luminaire Tested: **J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

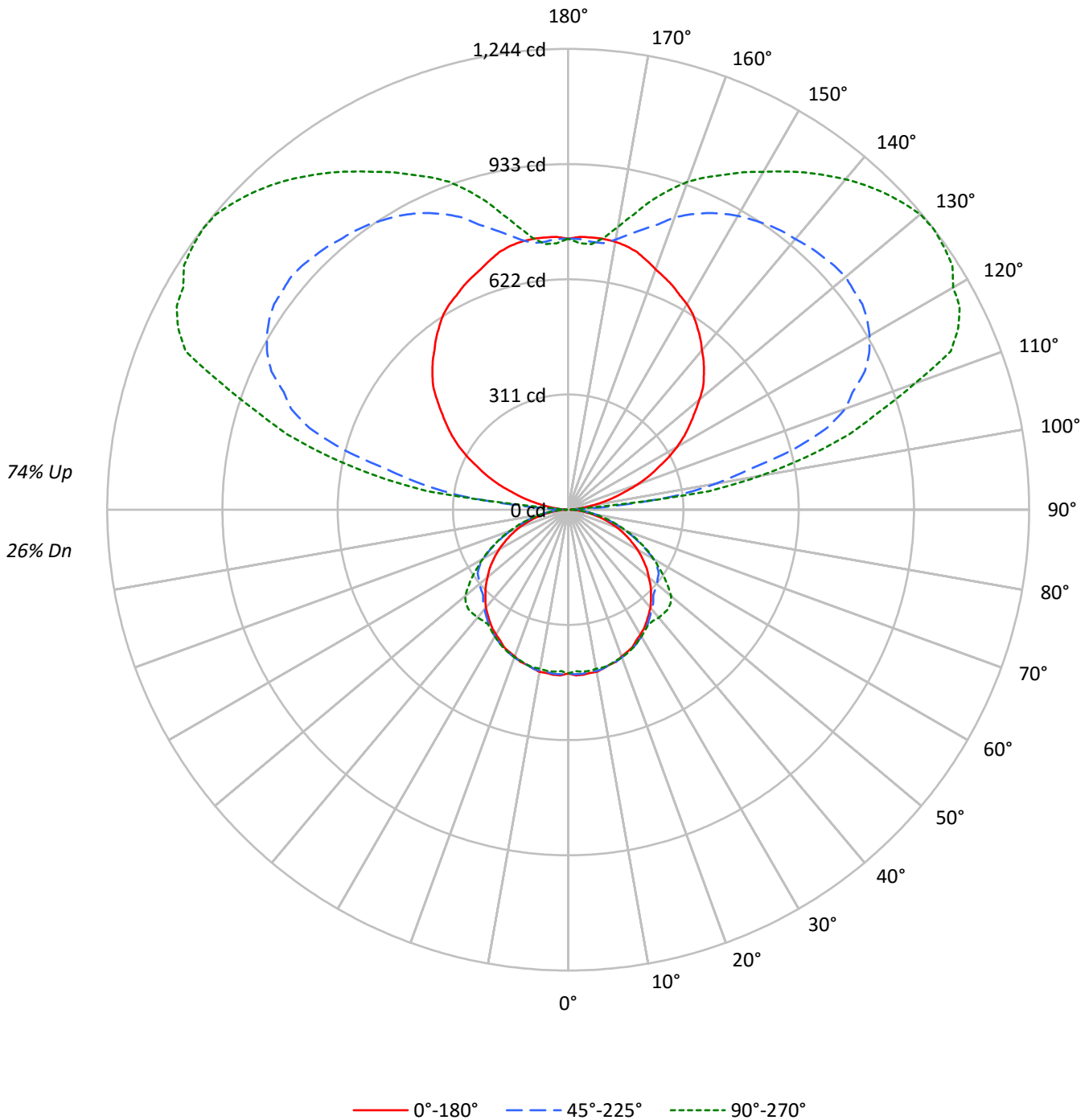
Lumens per Lamp: N/A  
Luminaire Lumens: 5781.0 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 44.1  
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



TEST NUMBER: P253450  
CATALOG NUMBER: J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P253450

CATALOG NUMBER: J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)

**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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

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

	0°	45°	90°
0°	3567	3567	3567
5°	3627	3604	3557
10°	3645	3622	3573
15°	3619	3619	3619
20°	3619	3644	3644
25°	3649	3674	3674
30°	3627	3682	3682
35°	3633	3691	3719
40°	3638	3700	4009
45°	3608	3708	4343
50°	3564	3932	4557
55°	3541	4200	4448
60°	3496	4298	4298
65°	3410	4080	4136
70°	3314	3866	3937
75°	3104	3649	3743
80°	2855	3538	3398
85°	2714	3798	3251



TEST NUMBER: P253450

CATALOG NUMBER: J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	0.7
10°-20°	122.3	2.1
20°-30°	189.0	3.3
30°-40°	234.4	4.1
40°-50°	262.3	4.5
50°-60°	256.3	4.4
60°-70°	202.2	3.5
70°-80°	122.4	2.1
80°-90°	43.6	0.8
90°-100°	150.2	2.6
100°-110°	580.7	10.0
110°-120°	798.0	13.8
120°-130°	807.3	14.0
130°-140°	715.5	12.4
140°-150°	565.9	9.8
150°-160°	395.1	6.8
160°-170°	223.6	3.9
170°-180°	70.1	1.2
0°-30°	353.4	6.1
0°-40°	587.7	10.2
0°-60°	1106.3	19.1
0°-90°	1474.5	25.5
90°-120°	1528.9	26.4
90°-150°	3617.7	62.6
90°-180°	4307.0	74.5
0°-180°	5781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	448	442	445	442	439	43
15°	433	430	433	433	433	123
25°	410	404	412	412	412	188
35°	369	369	374	377	377	231
45°	316	319	325	366	380	244
55°	252	254	298	316	316	225
65°	178	187	214	216	216	176
75°	100	117	117	120	120	105
85°	29	47	41	38	35	31
90°	6	18	15	3	3	6
95°	23	117	140	29	29	29
105°	129	416	629	726	784	137
115°	266	562	884	1094	1162	266
125°	401	650	968	1179	1238	359
135°	518	714	968	1159	1208	399
145°	606	731	939	1077	1112	379
155°	667	714	884	980	998	308
165°	720	717	784	851	863	202
175°	737	728	726	726	720	70
180°	731	731	731	731	731	



TEST NUMBER: P253450

CATALOG NUMBER: J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	441.8	441.8	441.8	441.8	441.8
2.5°	447.6	441.8	444.7	441.8	435.9
5°	447.6	441.8	444.7	441.8	438.9
7.5°	444.7	441.8	441.8	438.9	438.9
10°	444.7	438.9	441.8	438.9	435.9
12.5°	438.9	435.9	438.9	435.9	435.9
15°	433.0	430.1	433.0	433.0	433.0
17.5°	430.1	424.2	430.1	430.1	427.2
20°	421.3	418.4	424.2	424.2	424.2
22.5°	415.5	412.5	418.4	418.4	418.4
25°	409.6	403.8	412.5	412.5	412.5
27.5°	397.9	397.9	403.8	406.7	403.8
30°	389.1	386.2	395.0	397.9	395.0
32.5°	380.4	377.4	386.2	389.1	386.2
35°	368.6	368.6	374.5	377.4	377.4
37.5°	356.9	356.9	362.8	365.7	377.4
40°	345.2	345.2	351.1	368.6	380.4
42.5°	330.6	330.6	339.4	365.7	380.4
45°	316.0	318.9	324.8	365.7	380.4
47.5°	301.4	304.3	318.9	362.8	374.5
50°	283.8	289.7	313.1	354.0	362.8
52.5°	269.2	272.1	304.3	339.4	339.4
55°	251.6	254.5	298.4	316.0	316.0
57.5°	234.1	237.0	283.8	289.7	289.7
60°	216.5	219.4	266.2	266.2	266.2
62.5°	196.0	201.9	239.9	242.8	242.8
65°	178.5	187.3	213.6	216.5	216.5
67.5°	158.0	172.6	190.2	193.1	193.1
70°	140.4	158.0	163.8	166.8	166.8
72.5°	120.0	137.5	140.4	143.4	143.4
75°	99.5	117.0	117.0	120.0	120.0
77.5°	79.0	93.6	96.6	96.6	96.6
80°	61.4	70.2	76.1	73.1	73.1
82.5°	43.9	55.6	55.6	55.6	52.7
85°	29.3	46.8	41.0	38.0	35.1
87.5°	17.6	41.0	23.4	20.5	20.5
90°	5.9	17.6	14.6	2.9	2.9
92.5°	11.7	29.3	14.6	11.7	8.8
95°	23.4	117.0	140.4	29.3	29.3
97.5°	43.9	196.0	301.4	356.9	383.3
100°	67.3	292.6	403.8	494.5	526.6
102.5°	96.6	354.0	497.4	611.5	658.3
105°	128.7	415.5	629.0	725.6	784.1
107.5°	160.9	462.3	731.4	839.7	880.7
110°	199.0	500.3	795.8	983.1	994.8



TEST NUMBER: P253450

CATALOG NUMBER: J3-CL-60L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	234.1	529.6	830.9	1053.3	1117.7
115°	266.2	561.8	883.6	1094.2	1161.5
117.5°	304.3	585.2	915.8	1117.7	1190.8
120°	339.4	605.6	939.2	1146.9	1199.6
122.5°	371.6	629.0	956.7	1170.3	1228.8
125°	400.8	649.5	968.4	1179.1	1237.6
127.5°	430.1	667.1	971.4	1182.0	1243.5
130°	462.3	684.6	977.2	1179.1	1240.5
132.5°	494.5	702.2	974.3	1170.3	1225.9
135°	517.9	713.9	968.4	1158.6	1208.4
137.5°	541.3	722.7	962.6	1141.1	1187.9
140°	561.8	728.5	953.8	1120.6	1164.5
142.5°	585.2	731.4	948.0	1100.1	1138.1
145°	605.6	731.4	939.2	1076.7	1111.8
147.5°	626.1	728.5	927.5	1053.3	1082.5
150°	640.7	722.7	915.8	1029.9	1053.3
152.5°	652.5	716.8	901.1	1003.5	1027.0
155°	667.1	713.9	883.6	980.1	997.7
157.5°	678.8	713.9	863.1	953.8	971.4
160°	690.5	713.9	839.7	927.5	942.1
162.5°	705.1	713.9	807.5	889.4	904.1
165°	719.7	716.8	784.1	851.4	863.1
167.5°	728.5	716.8	760.7	804.6	816.3
170°	734.4	722.7	740.2	772.4	775.3
172.5°	737.3	728.5	725.6	740.2	740.2
175°	737.3	728.5	725.6	725.6	719.7
177.5°	737.3	731.4	731.4	728.5	719.7
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)