

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: P253504

Luminaire Tested: **J3-FL-60L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253504
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-60L83050-1D-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: 5469.8 lumens
Efficiency: N/A
Efficacy: 124.3 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

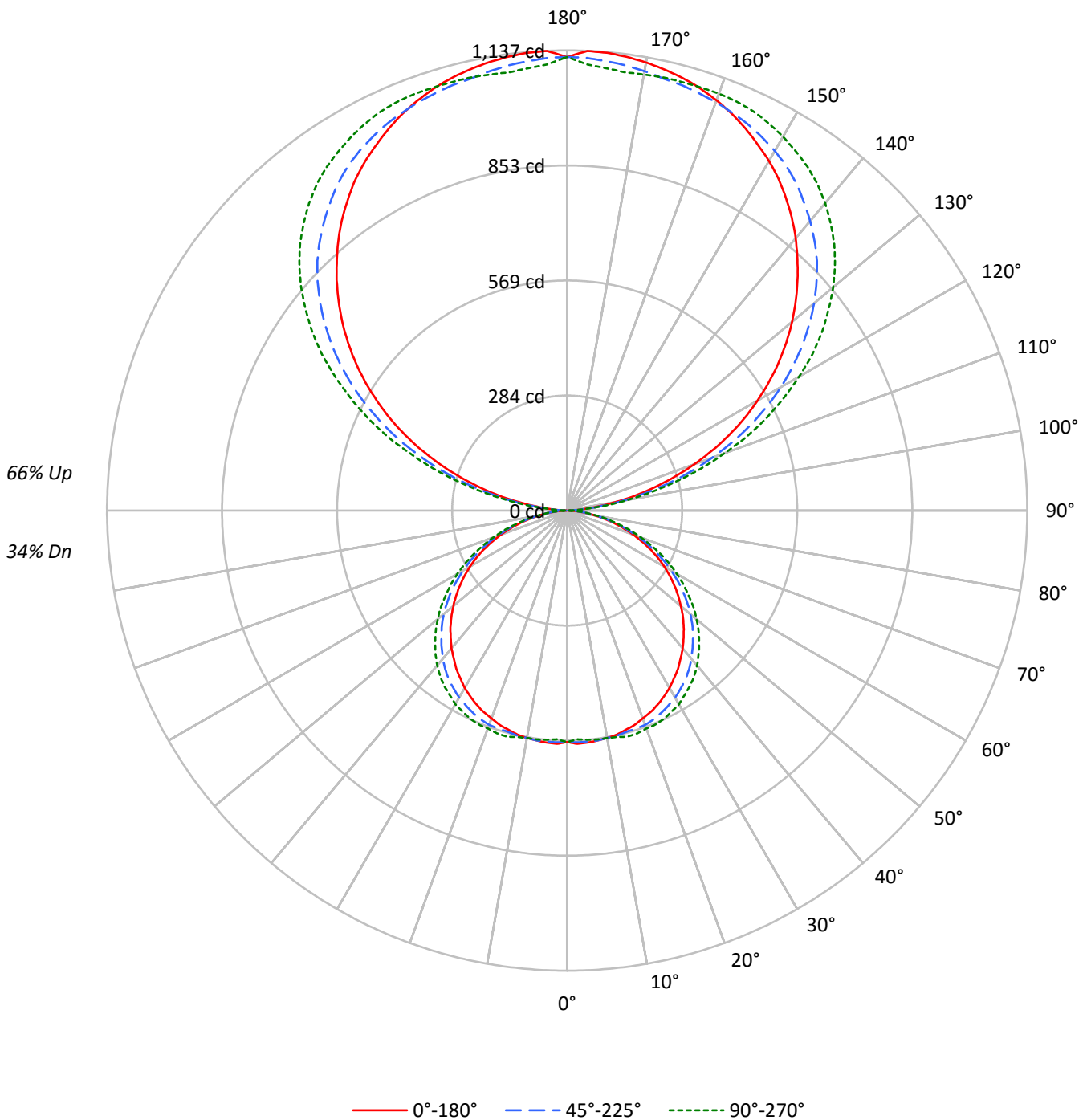
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253504

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253504

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (3000K)

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°	4617	4617	4617
5°	4665	4645	4605
10°	4677	4677	4677
15°	4687	4729	4833
20°	4692	4840	4924
25°	4713	4910	5051
30°	4715	4977	5150
35°	4705	5019	5214
40°	4683	5031	5264
45°	4654	5017	5269
50°	4609	4995	5242
55°	4559	4925	5165
60°	4476	4797	5054
65°	4336	4617	4879
70°	4086	4348	4574
75°	3752	3983	4173
80°	3259	3482	3603
85°	2612	2714	2853



TEST NUMBER: P253504

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.0
10°-20°	160.5	2.9
20°-30°	252.7	4.6
30°-40°	315.8	5.8
40°-50°	336.6	6.2
50°-60°	310.4	5.7
60°-70°	238.4	4.4
70°-80°	135.1	2.5
80°-90°	35.6	0.7
90°-100°	57.3	1.0
100°-110°	269.9	4.9
110°-120°	489.1	8.9
120°-130°	628.3	11.5
130°-140°	668.4	12.2
140°-150°	615.0	11.2
150°-160°	487.0	8.9
160°-170°	309.2	5.7
170°-180°	106.1	1.9
0°-30°	467.8	8.6
0°-40°	783.6	14.3
0°-60°	1430.6	26.2
0°-90°	1839.7	33.6
90°-120°	816.3	14.9
90°-150°	2727.9	49.9
90°-180°	3630.0	66.4
0°-180°	5469.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	576	571	573	572	568	55
15°	561	558	566	576	578	158
25°	529	530	551	562	567	244
35°	477	486	509	522	529	298
45°	408	418	439	453	462	314
55°	324	334	350	361	367	289
65°	227	232	242	250	255	224
75°	120	123	128	132	134	128
85°	28	29	29	31	31	32
90°	1	1	1	0	0	4
95°	38	39	43	45	48	49
105°	226	236	258	274	281	239
115°	442	460	500	530	545	436
125°	638	658	708	747	768	570
135°	805	818	873	911	933	621
145°	943	939	987	1018	1036	590
155°	1042	1028	1054	1076	1089	481
165°	1106	1089	1089	1092	1096	312
175°	1135	1122	1114	1106	1097	108
180°	1121	1121	1121	1121	1121	



TEST NUMBER: P253504

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.9	571.9	571.9	571.9	571.9
2.5°	576.9	571.9	573.2	573.2	565.8
5°	575.6	570.6	573.2	571.9	568.2
7.5°	573.2	569.5	573.2	573.2	570.6
10°	570.6	567.1	570.6	571.9	570.6
12.5°	567.1	563.4	569.5	571.9	573.2
15°	560.8	558.4	565.8	575.6	578.3
17.5°	554.9	553.6	564.7	575.6	576.9
20°	546.2	546.2	563.4	571.9	573.2
22.5°	539.0	539.0	558.4	567.1	571.9
25°	529.1	530.2	551.2	562.3	567.1
27.5°	518.0	521.7	542.5	554.9	559.7
30°	505.8	511.9	533.9	546.2	552.5
32.5°	491.2	499.5	521.7	533.9	540.1
35°	477.4	486.1	509.3	521.7	529.1
37.5°	460.4	471.3	494.7	506.9	515.6
40°	444.4	455.6	477.4	491.2	499.5
42.5°	425.9	438.1	459.1	472.6	481.1
45°	407.6	418.5	439.4	453.0	461.5
47.5°	387.9	399.0	420.0	432.2	440.5
50°	367.0	379.2	397.7	410.0	417.4
52.5°	346.0	357.1	374.4	386.8	394.0
55°	323.9	333.8	349.9	361.1	367.0
57.5°	300.6	310.4	323.9	335.1	341.2
60°	277.2	284.7	297.1	308.0	313.0
62.5°	252.8	259.1	270.0	278.8	284.7
65°	227.0	232.0	241.7	250.4	255.4
67.5°	200.2	205.0	213.5	220.9	224.6
70°	173.1	177.9	184.2	190.1	193.8
72.5°	147.1	149.7	155.9	160.9	163.3
75°	120.3	122.7	127.7	132.5	133.8
77.5°	95.8	96.9	100.9	103.3	104.3
80°	70.1	72.5	74.9	76.0	77.5
82.5°	47.8	49.1	50.2	51.5	52.6
85°	28.2	29.3	29.3	30.8	30.8
87.5°	12.2	13.5	13.5	13.5	13.5
90°	1.3	1.3	1.3	0.0	0.0
92.5°	12.2	12.2	13.5	14.6	15.9
95°	38.0	39.3	43.0	45.4	47.8
97.5°	76.0	78.6	85.8	92.1	94.5
100°	122.7	127.7	138.8	147.1	151.1
102.5°	173.1	180.3	196.5	208.7	214.8
105°	225.9	235.8	257.8	273.7	281.2
107.5°	279.9	292.3	320.5	338.8	348.6
110°	333.8	349.9	380.5	404.9	412.4



TEST NUMBER: P253504

CATALOG NUMBER: J3-FL-60L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.9	404.9	441.8	468.9	482.4
115°	441.8	460.4	499.5	530.2	545.1
117.5°	493.6	513.0	556.0	590.5	603.8
120°	542.5	563.4	610.1	645.7	661.6
122.5°	591.6	611.4	660.3	698.3	718.2
125°	638.3	657.9	708.4	747.4	768.4
127.5°	682.6	700.7	753.8	794.1	813.8
130°	725.4	742.6	796.6	836.1	858.1
132.5°	766.0	781.9	836.1	874.0	897.4
135°	805.3	817.5	872.7	910.7	933.0
137.5°	842.0	850.7	904.8	942.8	963.8
140°	878.8	881.5	934.1	969.7	991.7
142.5°	912.0	910.7	961.1	995.4	1016.4
145°	942.8	939.1	986.9	1017.5	1036.0
147.5°	972.1	963.8	1008.9	1034.9	1052.0
150°	997.8	986.9	1026.2	1052.0	1066.6
152.5°	1019.9	1007.6	1040.8	1064.2	1078.8
155°	1042.1	1027.5	1054.4	1076.4	1088.8
157.5°	1061.8	1043.2	1064.2	1083.8	1093.9
160°	1078.8	1060.7	1074.0	1088.8	1096.3
162.5°	1093.9	1075.3	1081.4	1089.9	1096.3
165°	1106.1	1088.8	1088.8	1092.3	1096.3
167.5°	1115.7	1101.1	1093.9	1095.0	1096.3
170°	1124.4	1109.6	1102.2	1095.0	1093.9
172.5°	1130.5	1115.7	1109.6	1099.8	1092.3
175°	1135.3	1122.0	1114.4	1106.1	1097.4
177.5°	1136.7	1125.5	1119.4	1110.9	1103.5
180°	1120.7	1120.7	1120.7	1120.7	1120.7

(END OF REPORT)