

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: P253519

Luminaire Tested: **J3-FL-30L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253519  
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-30L83050-1D-UNV-W2A-W-4 (4500K)  
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 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3065.4 lumens  
Efficiency: N/A  
Efficacy: 141.3 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

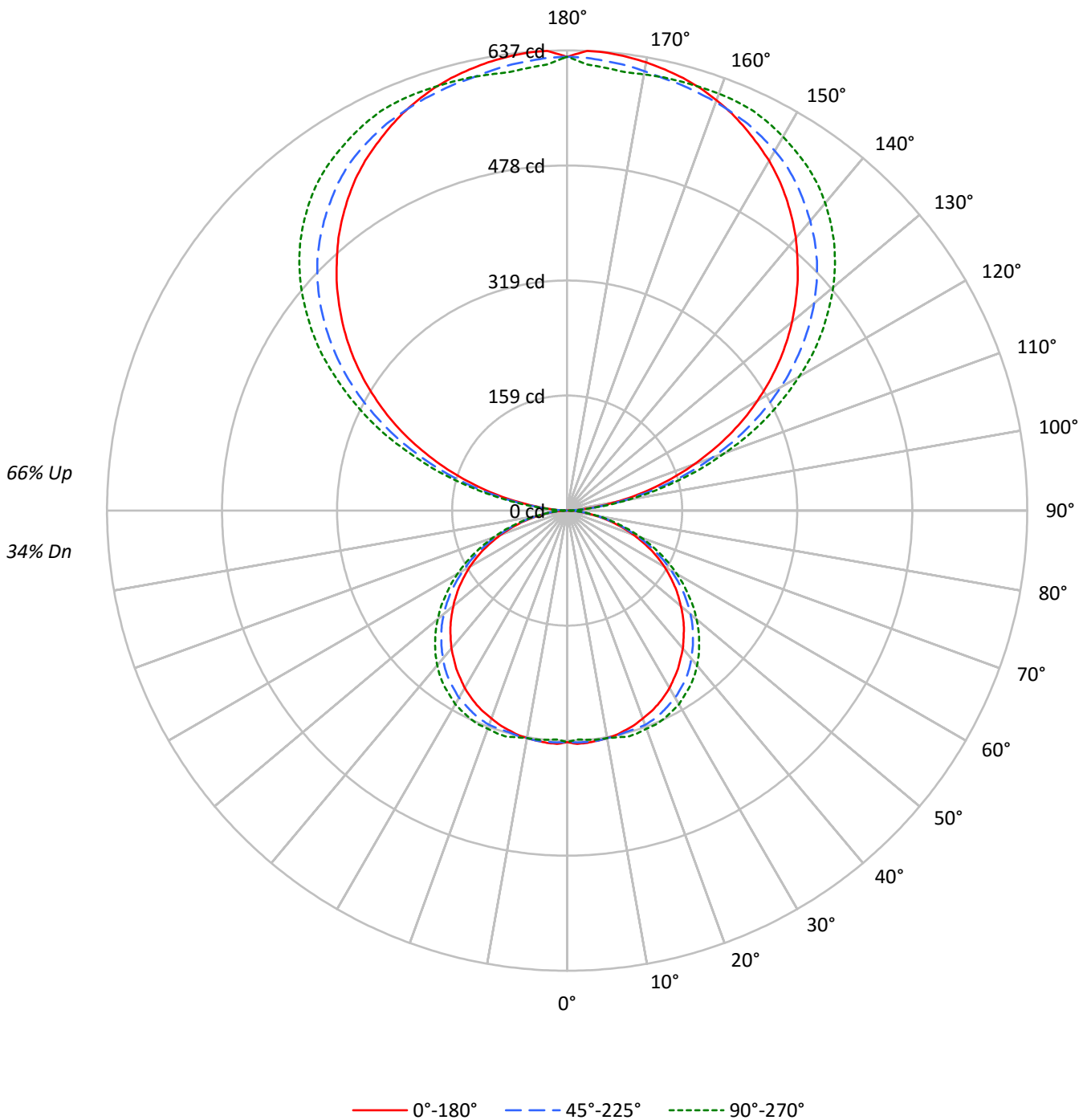
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					34			
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28					28			
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23					23			
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19					19			
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16					16			
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14					14			
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12					12			
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11					11			
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10					10			
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9					9			
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8					8			

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

	0°	45°	90°
0°	2587	2587	2587
5°	2614	2604	2580
10°	2622	2622	2622
15°	2627	2650	2709
20°	2630	2712	2760
25°	2641	2752	2831
30°	2643	2789	2886
35°	2636	2813	2922
40°	2625	2819	2950
45°	2608	2812	2952
50°	2582	2799	2938
55°	2555	2760	2894
60°	2509	2688	2832
65°	2430	2586	2734
70°	2290	2438	2563
75°	2102	2233	2339
80°	1827	1953	2018
85°	1464	1519	1593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.6	1.0
10°-20°	89.9	2.9
20°-30°	141.6	4.6
30°-40°	177.0	5.8
40°-50°	188.6	6.2
50°-60°	173.9	5.7
60°-70°	133.6	4.4
70°-80°	75.7	2.5
80°-90°	19.9	0.7
90°-100°	32.1	1.0
100°-110°	151.2	4.9
110°-120°	274.1	8.9
120°-130°	352.1	11.5
130°-140°	374.6	12.2
140°-150°	344.6	11.2
150°-160°	272.9	8.9
160°-170°	173.3	5.7
170°-180°	59.4	1.9
0°-30°	262.2	8.6
0°-40°	439.1	14.3
0°-60°	801.7	26.2
0°-90°	1031.0	33.6
90°-120°	457.5	14.9
90°-150°	1528.8	49.9
90°-180°	2034.0	66.4
0°-180°	3065.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	320	320	320	320	320	
5°	323	320	321	320	318	31
15°	314	313	317	323	324	89
25°	296	297	309	315	318	137
35°	268	272	285	292	296	167
45°	228	234	246	254	259	176
55°	182	187	196	202	206	162
65°	127	130	135	140	143	126
75°	67	69	72	74	75	72
85°	16	16	16	17	17	18
90°	1	1	1	0	0	2
95°	21	22	24	25	27	28
105°	127	132	144	153	158	134
115°	248	258	280	297	306	244
125°	358	369	397	419	431	319
135°	451	458	489	510	523	348
145°	528	526	553	570	581	331
155°	584	576	591	603	610	269
165°	620	610	610	612	614	175
175°	636	629	624	620	615	60
180°	628	628	628	628	628	



TEST NUMBER: P253519

CATALOG NUMBER: J3-FL-30L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	320.5	320.5	320.5	320.5	320.5
2.5°	323.3	320.5	321.3	321.3	317.1
5°	322.6	319.8	321.3	320.5	318.4
7.5°	321.3	319.2	321.3	321.3	319.8
10°	319.8	317.8	319.8	320.5	319.8
12.5°	317.8	315.7	319.2	320.5	321.3
15°	314.3	312.9	317.1	322.6	324.1
17.5°	311.0	310.2	316.5	322.6	323.3
20°	306.1	306.1	315.7	320.5	321.3
22.5°	302.0	302.0	312.9	317.8	320.5
25°	296.5	297.2	308.9	315.1	317.8
27.5°	290.3	292.4	304.0	311.0	313.7
30°	283.5	286.9	299.2	306.1	309.6
32.5°	275.3	279.9	292.4	299.2	302.7
35°	267.5	272.4	285.4	292.4	296.5
37.5°	258.0	264.1	277.2	284.1	289.0
40°	249.1	255.3	267.5	275.3	279.9
42.5°	238.7	245.5	257.3	264.9	269.6
45°	228.4	234.5	246.3	253.8	258.6
47.5°	217.4	223.6	235.4	242.2	246.9
50°	205.6	212.5	222.9	229.7	233.9
52.5°	193.9	200.1	209.8	216.8	220.8
55°	181.5	187.1	196.1	202.3	205.6
57.5°	168.5	174.0	181.5	187.8	191.2
60°	155.4	159.5	166.5	172.6	175.4
62.5°	141.7	145.2	151.3	156.2	159.5
65°	127.2	130.0	135.4	140.3	143.1
67.5°	112.2	114.9	119.6	123.8	125.9
70°	97.0	99.7	103.3	106.6	108.6
72.5°	82.5	83.9	87.3	90.2	91.5
75°	67.4	68.8	71.6	74.3	75.0
77.5°	53.7	54.3	56.5	57.9	58.5
80°	39.3	40.6	42.0	42.6	43.4
82.5°	26.8	27.5	28.1	28.9	29.5
85°	15.8	16.4	16.4	17.2	17.2
87.5°	6.9	7.6	7.6	7.6	7.6
90°	0.7	0.7	0.7	0.0	0.0
92.5°	6.9	6.9	7.6	8.2	8.9
95°	21.3	22.0	24.1	25.4	26.8
97.5°	42.6	44.0	48.1	51.6	53.0
100°	68.8	71.6	77.8	82.5	84.7
102.5°	97.0	101.0	110.1	117.0	120.4
105°	126.6	132.1	144.5	153.4	157.6
107.5°	156.8	163.8	179.6	189.9	195.4
110°	187.1	196.1	213.2	226.9	231.1



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CATALOG NUMBER: J3-FL-30L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	217.4	226.9	247.6	262.8	270.4
115°	247.6	258.0	279.9	297.2	305.5
117.5°	276.6	287.5	311.6	330.9	338.4
120°	304.0	315.7	341.9	361.9	370.8
122.5°	331.5	342.7	370.1	391.4	402.5
125°	357.7	368.7	397.0	418.9	430.6
127.5°	382.5	392.7	422.4	445.1	456.1
130°	406.5	416.2	446.4	468.5	480.9
132.5°	429.3	438.2	468.5	489.8	502.9
135°	451.3	458.1	489.1	510.4	522.9
137.5°	471.8	476.7	507.1	528.4	540.1
140°	492.5	494.0	523.5	543.4	555.8
142.5°	511.1	510.4	538.6	557.8	569.6
145°	528.4	526.3	553.1	570.2	580.6
147.5°	544.8	540.1	565.4	580.0	589.5
150°	559.2	553.1	575.1	589.5	597.7
152.5°	571.6	564.7	583.3	596.4	604.6
155°	584.0	575.8	590.9	603.2	610.2
157.5°	595.0	584.6	596.4	607.4	613.0
160°	604.6	594.4	601.9	610.2	614.4
162.5°	613.0	602.6	606.0	610.8	614.4
165°	619.9	610.2	610.2	612.2	614.4
167.5°	625.3	617.1	613.0	613.6	614.4
170°	630.1	621.8	617.7	613.6	613.0
172.5°	633.6	625.3	621.8	616.3	612.2
175°	636.3	628.8	624.5	619.9	615.0
177.5°	637.0	630.8	627.3	622.6	618.4
180°	628.1	628.1	628.1	628.1	628.1

(END OF REPORT)