

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: P253507

Luminaire Tested: **J3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253507
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2887.2 lumens
Efficiency: N/A
Efficacy: 139.5 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

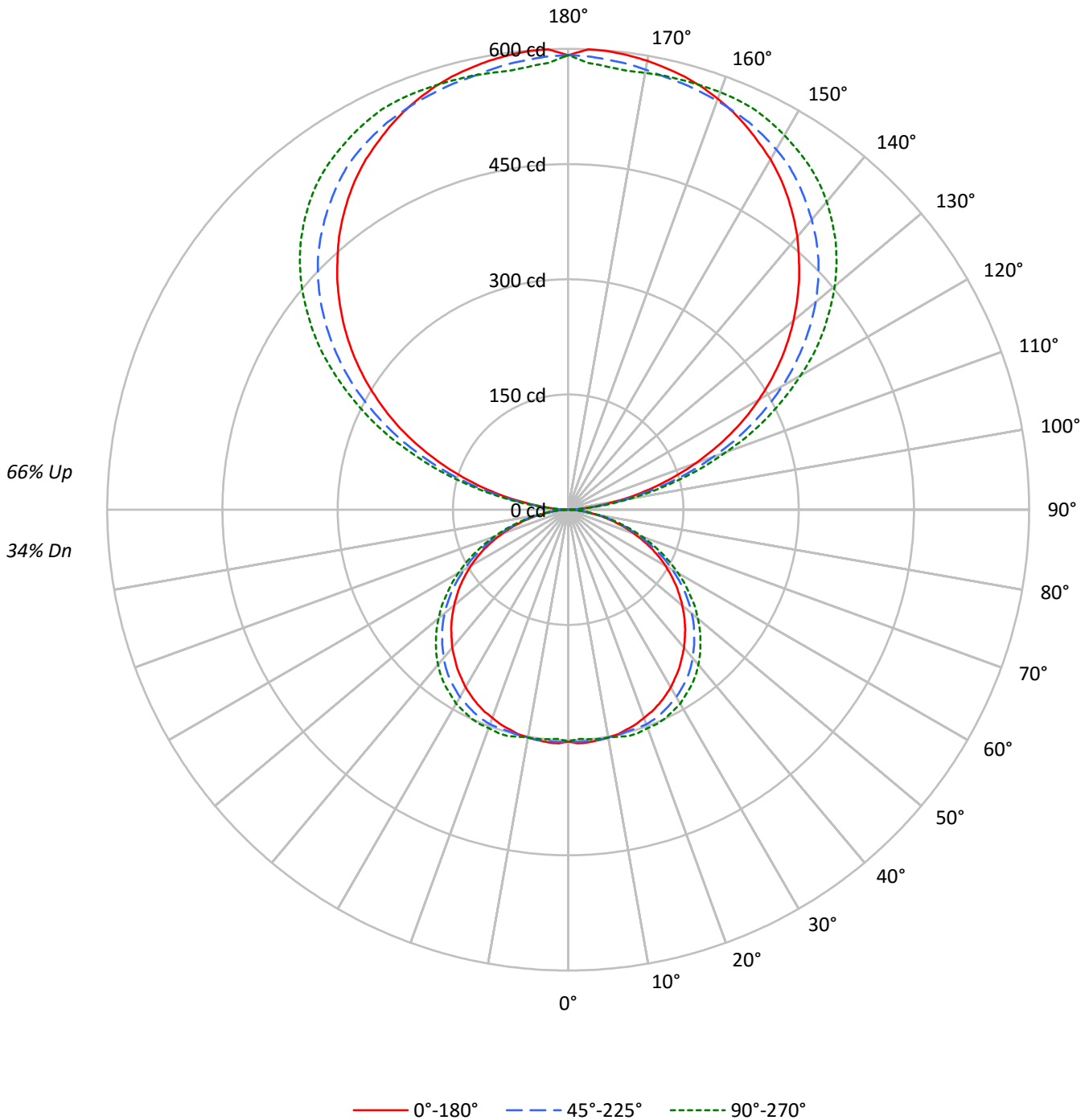
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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																				
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°	2437	2437	2437
5°	2463	2452	2430
10°	2469	2469	2469
15°	2474	2496	2551
20°	2477	2555	2600
25°	2488	2591	2667
30°	2489	2627	2718
35°	2484	2649	2753
40°	2472	2656	2778
45°	2456	2649	2781
50°	2433	2636	2767
55°	2407	2600	2726
60°	2362	2532	2667
65°	2288	2437	2575
70°	2157	2297	2415
75°	1981	2102	2202
80°	1720	1836	1901
85°	1380	1426	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.0
10°-20°	84.7	2.9
20°-30°	133.4	4.6
30°-40°	166.7	5.8
40°-50°	177.7	6.2
50°-60°	163.9	5.7
60°-70°	125.8	4.4
70°-80°	71.3	2.5
80°-90°	18.8	0.7
90°-100°	30.3	1.0
100°-110°	142.5	4.9
110°-120°	258.2	8.9
120°-130°	331.6	11.5
130°-140°	352.8	12.2
140°-150°	324.6	11.2
150°-160°	257.1	8.9
160°-170°	163.2	5.7
170°-180°	56.0	1.9
0°-30°	246.9	8.6
0°-40°	413.6	14.3
0°-60°	755.1	26.2
0°-90°	971.1	33.6
90°-120°	430.9	14.9
90°-150°	1440.0	49.9
90°-180°	1916.0	66.4
0°-180°	2887.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	304	301	303	302	300	29
15°	296	295	299	304	305	84
25°	279	280	291	297	299	129
35°	252	257	269	275	279	157
45°	215	221	232	239	244	166
55°	171	176	185	191	194	153
65°	120	122	128	132	135	118
75°	64	65	67	70	71	67
85°	15	15	15	16	16	17
90°	1	1	1	0	0	2
95°	20	21	23	24	25	26
105°	119	124	136	144	148	126
115°	233	243	264	280	288	230
125°	337	347	374	394	406	301
135°	425	432	461	481	492	328
145°	498	496	521	537	547	311
155°	550	542	556	568	575	254
165°	584	575	575	577	579	165
175°	599	592	588	584	579	57
180°	592	592	592	592	592	



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CATALOG NUMBER: J3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	301.9	301.9	301.9	301.9	301.9
2.5°	304.5	301.9	302.6	302.6	298.7
5°	303.9	301.2	302.6	301.9	299.9
7.5°	302.6	300.6	302.6	302.6	301.2
10°	301.2	299.4	301.2	301.9	301.2
12.5°	299.4	297.4	300.6	301.9	302.6
15°	296.0	294.7	298.7	303.9	305.2
17.5°	292.9	292.2	298.1	303.9	304.5
20°	288.3	288.3	297.4	301.9	302.6
22.5°	284.5	284.5	294.7	299.4	301.9
25°	279.3	279.9	290.9	296.8	299.4
27.5°	273.4	275.4	286.3	292.9	295.4
30°	267.0	270.2	281.8	288.3	291.6
32.5°	259.3	263.6	275.4	281.8	285.1
35°	252.0	256.6	268.8	275.4	279.3
37.5°	243.0	248.8	261.1	267.6	272.2
40°	234.6	240.5	252.0	259.3	263.6
42.5°	224.8	231.3	242.3	249.5	254.0
45°	215.1	220.9	232.0	239.1	243.6
47.5°	204.8	210.6	221.7	228.1	232.5
50°	193.7	200.1	209.9	216.4	220.3
52.5°	182.6	188.5	197.6	204.2	208.0
55°	171.0	176.2	184.7	190.6	193.7
57.5°	158.7	163.9	171.0	176.9	180.1
60°	146.3	150.3	156.8	162.6	165.2
62.5°	133.4	136.8	142.5	147.1	150.3
65°	119.8	122.5	127.6	132.2	134.8
67.5°	105.7	108.2	112.7	116.6	118.6
70°	91.4	93.9	97.3	100.4	102.3
72.5°	77.7	79.0	82.3	84.9	86.2
75°	63.5	64.8	67.4	69.9	70.6
77.5°	50.6	51.2	53.2	54.5	55.1
80°	37.0	38.3	39.5	40.1	40.9
82.5°	25.2	25.9	26.5	27.2	27.8
85°	14.9	15.4	15.4	16.2	16.2
87.5°	6.5	7.1	7.1	7.1	7.1
90°	0.7	0.7	0.7	0.0	0.0
92.5°	6.5	6.5	7.1	7.7	8.4
95°	20.0	20.7	22.7	24.0	25.2
97.5°	40.1	41.5	45.3	48.6	49.9
100°	64.8	67.4	73.3	77.7	79.7
102.5°	91.4	95.2	103.7	110.2	113.4
105°	119.3	124.4	136.1	144.5	148.4
107.5°	147.7	154.3	169.2	178.8	184.0
110°	176.2	184.7	200.8	213.7	217.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	204.8	213.7	233.2	247.5	254.6
115°	233.2	243.0	263.6	279.9	287.7
117.5°	260.5	270.8	293.5	311.7	318.7
120°	286.3	297.4	322.1	340.8	349.3
122.5°	312.3	322.7	348.6	368.6	379.1
125°	336.9	347.3	373.9	394.5	405.6
127.5°	360.3	369.9	397.9	419.2	429.6
130°	382.9	392.0	420.5	441.3	453.0
132.5°	404.3	412.7	441.3	461.4	473.7
135°	425.1	431.5	460.7	480.7	492.5
137.5°	444.4	449.0	477.6	497.7	508.7
140°	463.9	465.3	493.1	511.8	523.5
142.5°	481.4	480.7	507.3	525.4	536.5
145°	497.7	495.7	520.9	537.1	546.9
147.5°	513.1	508.7	532.6	546.3	555.3
150°	526.7	520.9	541.7	555.3	563.0
152.5°	538.3	531.9	549.4	561.7	569.4
155°	550.1	542.4	556.5	568.2	574.7
157.5°	560.5	550.7	561.7	572.1	577.4
160°	569.4	559.9	566.9	574.7	578.7
162.5°	577.4	567.6	570.8	575.3	578.7
165°	583.9	574.7	574.7	576.6	578.7
167.5°	588.9	581.2	577.4	578.0	578.7
170°	593.5	585.7	581.8	578.0	577.4
172.5°	596.8	588.9	585.7	580.5	576.6
175°	599.3	592.3	588.2	583.9	579.2
177.5°	600.0	594.1	590.9	586.4	582.5
180°	591.6	591.6	591.6	591.6	591.6

(END OF REPORT)