

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: P253501

Luminaire Tested: **J3-FL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253501
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 (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: 2729.9 lumens
Efficiency: N/A
Efficacy: 131.9 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

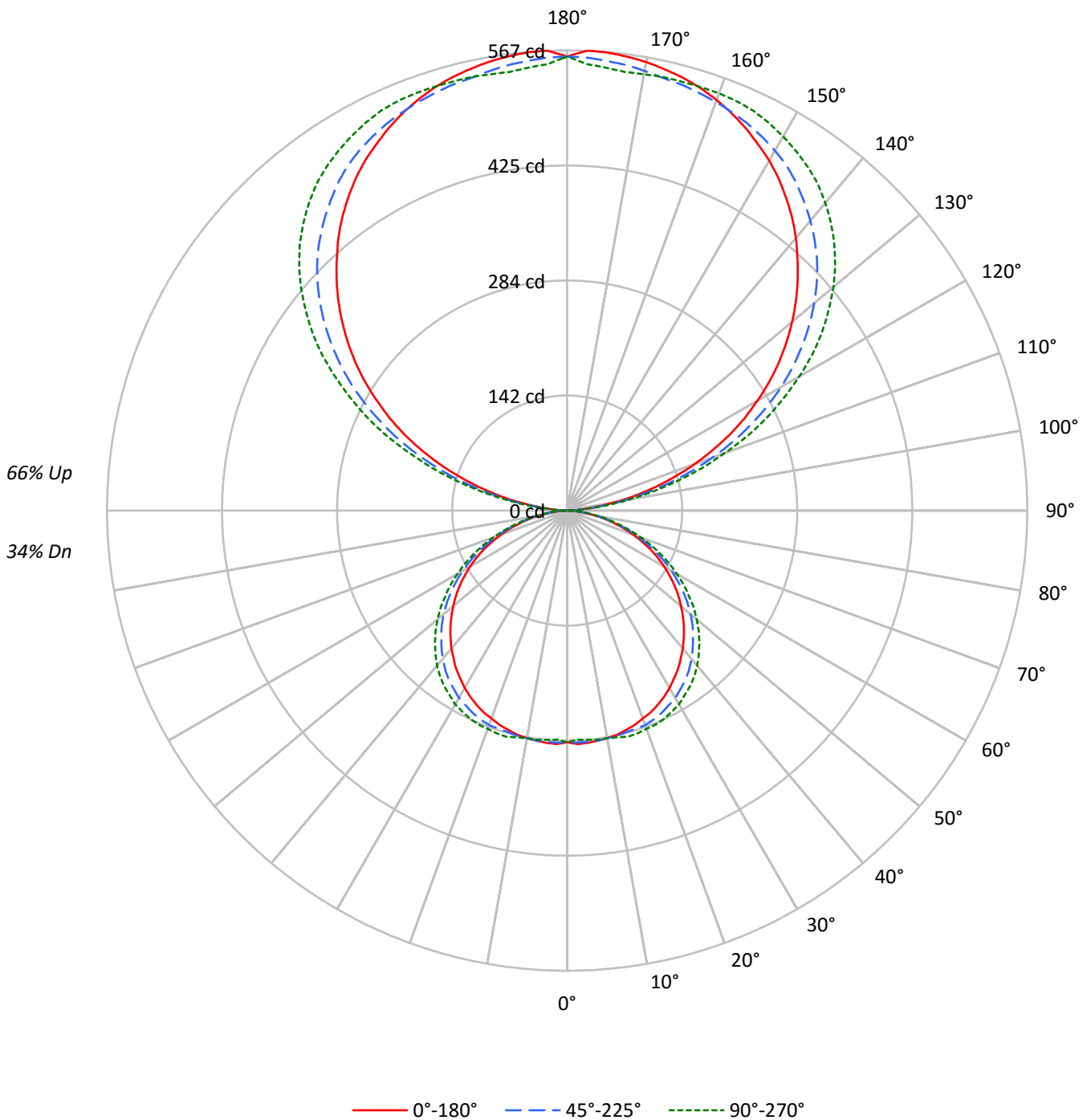
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2304	2304	2304
5°	2328	2318	2298
10°	2335	2335	2335
15°	2339	2360	2412
20°	2342	2416	2458
25°	2352	2450	2521
30°	2353	2484	2570
35°	2349	2505	2603
40°	2337	2511	2627
45°	2322	2504	2629
50°	2300	2493	2616
55°	2276	2457	2577
60°	2235	2394	2522
65°	2164	2304	2436
70°	2039	2172	2282
75°	1871	1987	2084
80°	1627	1739	1799
85°	1306	1352	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	1.0
10°-20°	80.1	2.9
20°-30°	126.1	4.6
30°-40°	157.6	5.8
40°-50°	168.0	6.2
50°-60°	154.9	5.7
60°-70°	119.0	4.4
70°-80°	67.4	2.5
80°-90°	17.8	0.7
90°-100°	28.6	1.0
100°-110°	134.7	4.9
110°-120°	244.1	8.9
120°-130°	313.6	11.5
130°-140°	333.6	12.2
140°-150°	306.9	11.2
150°-160°	243.0	8.9
160°-170°	154.3	5.7
170°-180°	52.9	1.9
0°-30°	233.5	8.6
0°-40°	391.1	14.3
0°-60°	714.0	26.2
0°-90°	918.2	33.6
90°-120°	407.4	14.9
90°-150°	1361.5	49.9
90°-180°	1812.0	66.4
0°-180°	2729.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	285	285	285	285	285	
5°	287	285	286	285	284	27
15°	280	279	282	287	289	79
25°	264	265	275	281	283	122
35°	238	243	254	260	264	149
45°	203	209	219	226	230	157
55°	162	167	175	180	183	144
65°	113	116	121	125	128	112
75°	60	61	64	66	67	64
85°	14	15	15	15	15	16
90°	1	1	1	0	0	2
95°	19	20	22	23	24	25
105°	113	118	129	137	140	119
115°	220	230	249	265	272	217
125°	319	328	354	373	384	284
135°	402	408	436	454	466	310
145°	470	469	492	508	517	294
155°	520	513	526	537	543	240
165°	552	543	543	545	547	156
175°	567	560	556	552	548	54
180°	559	559	559	559	559	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	285.4	285.4	285.4	285.4	285.4
2.5°	287.9	285.4	286.1	286.1	282.4
5°	287.3	284.8	286.1	285.4	283.6
7.5°	286.1	284.2	286.1	286.1	284.8
10°	284.8	283.0	284.8	285.4	284.8
12.5°	283.0	281.2	284.2	285.4	286.1
15°	279.9	278.7	282.4	287.3	288.6
17.5°	276.9	276.3	281.8	287.3	287.9
20°	272.6	272.6	281.2	285.4	286.1
22.5°	269.0	269.0	278.7	283.0	285.4
25°	264.1	264.6	275.1	280.6	283.0
27.5°	258.5	260.4	270.7	276.9	279.3
30°	252.4	255.5	266.5	272.6	275.7
32.5°	245.1	249.3	260.4	266.5	269.5
35°	238.3	242.6	254.2	260.4	264.1
37.5°	229.8	235.2	246.9	253.0	257.3
40°	221.8	227.4	238.3	245.1	249.3
42.5°	212.6	218.7	229.1	235.9	240.1
45°	203.4	208.9	219.3	226.1	230.3
47.5°	193.6	199.2	209.6	215.7	219.9
50°	183.1	189.2	198.5	204.6	208.3
52.5°	172.7	178.2	186.8	193.1	196.6
55°	161.7	166.6	174.6	180.2	183.1
57.5°	150.0	154.9	161.7	167.2	170.3
60°	138.4	142.1	148.3	153.7	156.2
62.5°	126.2	129.3	134.8	139.1	142.1
65°	113.3	115.8	120.6	125.0	127.5
67.5°	99.9	102.3	106.5	110.3	112.1
70°	86.4	88.8	92.0	94.9	96.7
72.5°	73.4	74.7	77.8	80.3	81.5
75°	60.0	61.2	63.7	66.1	66.8
77.5°	47.8	48.4	50.3	51.5	52.1
80°	35.0	36.2	37.4	37.9	38.7
82.5°	23.9	24.5	25.1	25.7	26.3
85°	14.1	14.6	14.6	15.4	15.4
87.5°	6.1	6.8	6.8	6.8	6.8
90°	0.7	0.7	0.7	0.0	0.0
92.5°	6.1	6.1	6.8	7.3	8.0
95°	19.0	19.6	21.5	22.7	23.9
97.5°	37.9	39.2	42.8	46.0	47.2
100°	61.2	63.7	69.3	73.4	75.4
102.5°	86.4	90.0	98.1	104.2	107.2
105°	112.8	117.7	128.7	136.6	140.3
107.5°	139.7	145.9	159.9	169.1	174.0
110°	166.6	174.6	189.9	202.1	205.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.6	202.1	220.5	234.0	240.8
115°	220.5	229.8	249.3	264.6	272.0
117.5°	246.3	256.0	277.5	294.7	301.3
120°	270.7	281.2	304.5	322.3	330.2
122.5°	295.2	305.2	329.6	348.5	358.4
125°	318.6	328.4	353.5	373.0	383.5
127.5°	340.7	349.7	376.2	396.3	406.2
130°	362.0	370.6	397.5	417.3	428.3
132.5°	382.3	390.2	417.3	436.2	447.9
135°	401.9	408.0	435.6	454.5	465.6
137.5°	420.2	424.6	451.6	470.5	481.0
140°	438.6	439.9	466.2	483.9	494.9
142.5°	455.2	454.5	479.7	496.8	507.3
145°	470.5	468.7	492.5	507.8	517.1
147.5°	485.1	481.0	503.6	516.5	525.0
150°	498.0	492.5	512.2	525.0	532.3
152.5°	509.0	502.9	519.5	531.1	538.4
155°	520.1	512.8	526.2	537.2	543.4
157.5°	529.9	520.7	531.1	540.9	545.9
160°	538.4	529.4	536.0	543.4	547.1
162.5°	545.9	536.7	539.7	544.0	547.1
165°	552.0	543.4	543.4	545.2	547.1
167.5°	556.8	549.5	545.9	546.5	547.1
170°	561.2	553.8	550.1	546.5	545.9
172.5°	564.2	556.8	553.8	548.9	545.2
175°	566.6	560.0	556.2	552.0	547.7
177.5°	567.3	561.7	558.7	554.4	550.7
180°	559.3	559.3	559.3	559.3	559.3

(END OF REPORT)