

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: P253485

Luminaire Tested: **J3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253485  
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-50L93050-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4407.9 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

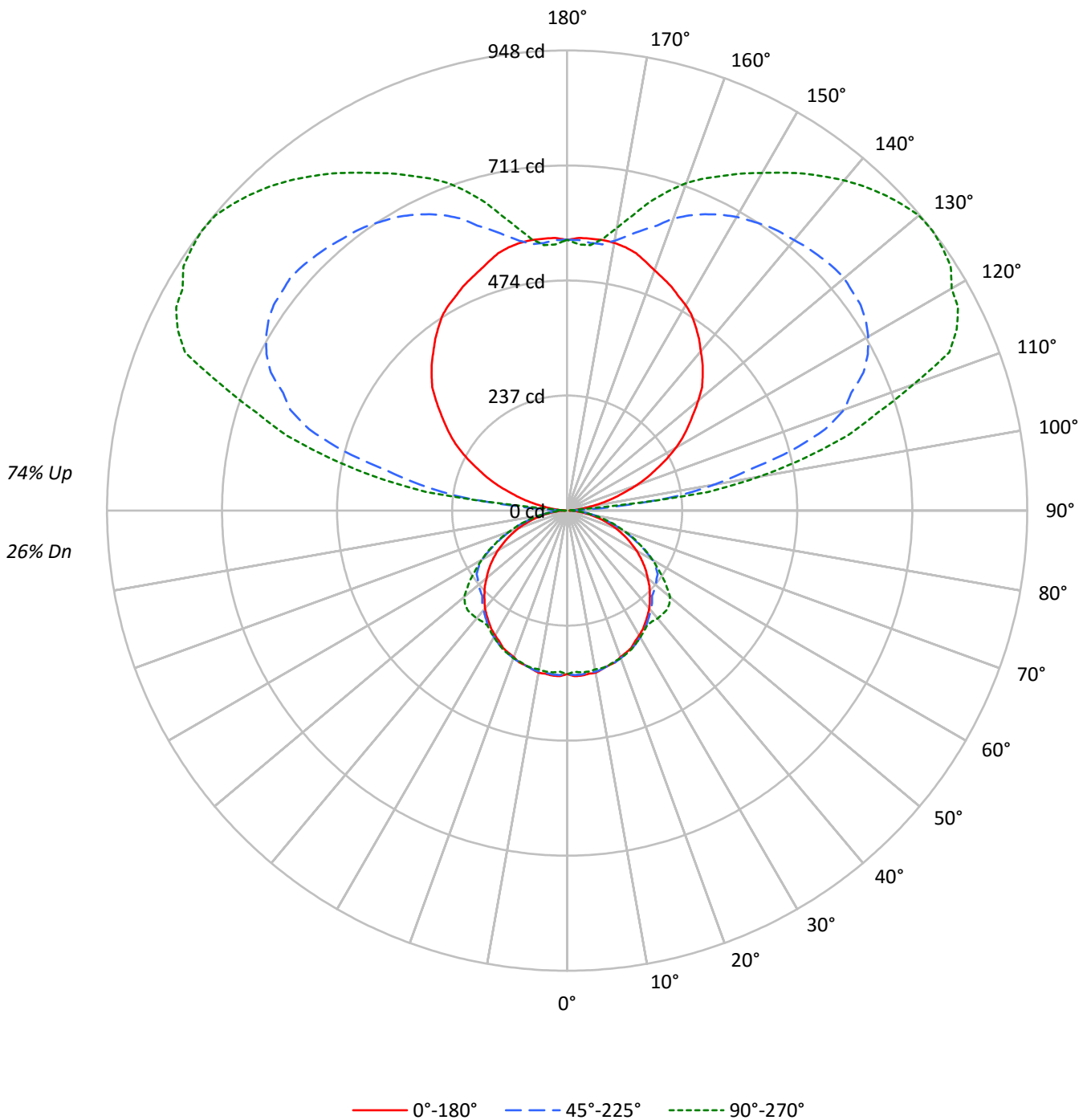
Input Watts (W): 36.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2720	2720	2720
5°	2766	2748	2712
10°	2780	2762	2725
15°	2760	2760	2760
20°	2759	2779	2779
25°	2782	2802	2802
30°	2766	2808	2808
35°	2770	2814	2836
40°	2774	2821	3056
45°	2750	2827	3311
50°	2718	2998	3474
55°	2701	3202	3391
60°	2666	3278	3278
65°	2600	3112	3154
70°	2528	2948	3002
75°	2364	2782	2854
80°	2176	2696	2594
85°	2066	2890	2482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.1	0.7
10°-20°	93.2	2.1
20°-30°	144.1	3.3
30°-40°	178.7	4.1
40°-50°	200.0	4.5
50°-60°	195.4	4.4
60°-70°	154.2	3.5
70°-80°	93.3	2.1
80°-90°	33.2	0.8
90°-100°	114.5	2.6
100°-110°	442.8	10.0
110°-120°	608.5	13.8
120°-130°	615.6	14.0
130°-140°	545.6	12.4
140°-150°	431.5	9.8
150°-160°	301.3	6.8
160°-170°	170.5	3.9
170°-180°	53.5	1.2
0°-30°	269.4	6.1
0°-40°	448.2	10.2
0°-60°	843.6	19.1
0°-90°	1124.3	25.5
90°-120°	1165.8	26.4
90°-150°	2758.4	62.6
90°-180°	3284.0	74.5
0°-180°	4407.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	341	337	339	337	335	32
15°	330	328	330	330	330	94
25°	312	308	315	315	315	143
35°	281	281	286	288	288	176
45°	241	243	248	279	290	186
55°	192	194	228	241	241	171
65°	136	143	163	165	165	134
75°	76	89	89	92	92	80
85°	22	36	31	29	27	23
90°	4	13	11	2	2	4
95°	18	89	107	22	22	22
105°	98	317	480	553	598	104
115°	203	428	674	834	886	202
125°	306	495	738	899	944	273
135°	395	544	738	883	921	304
145°	462	558	716	821	848	289
155°	509	544	674	747	761	235
165°	549	547	598	649	658	154
175°	562	556	553	553	549	54
180°	558	558	558	558	558	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	336.9	336.9	336.9	336.9	336.9
2.5°	341.3	336.9	339.1	336.9	332.4
5°	341.3	336.9	339.1	336.9	334.6
7.5°	339.1	336.9	336.9	334.6	334.6
10°	339.1	334.6	336.9	334.6	332.4
12.5°	334.6	332.4	334.6	332.4	332.4
15°	330.2	327.9	330.2	330.2	330.2
17.5°	327.9	323.5	327.9	327.9	325.7
20°	321.2	319.0	323.5	323.5	323.5
22.5°	316.8	314.6	319.0	319.0	319.0
25°	312.3	307.9	314.6	314.6	314.6
27.5°	303.4	303.4	307.9	310.1	307.9
30°	296.7	294.5	301.2	303.4	301.2
32.5°	290.0	287.8	294.5	296.7	294.5
35°	281.1	281.1	285.5	287.8	287.8
37.5°	272.2	272.2	276.6	278.9	287.8
40°	263.2	263.2	267.7	281.1	290.0
42.5°	252.1	252.1	258.8	278.9	290.0
45°	240.9	243.2	247.6	278.9	290.0
47.5°	229.8	232.0	243.2	276.6	285.5
50°	216.4	220.9	238.7	269.9	276.6
52.5°	205.2	207.5	232.0	258.8	258.8
55°	191.9	194.1	227.5	240.9	240.9
57.5°	178.5	180.7	216.4	220.9	220.9
60°	165.1	167.3	203.0	203.0	203.0
62.5°	149.5	153.9	182.9	185.2	185.2
65°	136.1	142.8	162.9	165.1	165.1
67.5°	120.5	131.6	145.0	147.2	147.2
70°	107.1	120.5	124.9	127.2	127.2
72.5°	91.5	104.9	107.1	109.3	109.3
75°	75.8	89.2	89.2	91.5	91.5
77.5°	60.2	71.4	73.6	73.6	73.6
80°	46.8	53.5	58.0	55.8	55.8
82.5°	33.5	42.4	42.4	42.4	40.2
85°	22.3	35.7	31.2	29.0	26.8
87.5°	13.4	31.2	17.8	15.6	15.6
90°	4.5	13.4	11.2	2.2	2.2
92.5°	8.9	22.3	11.2	8.9	6.7
95°	17.8	89.2	107.1	22.3	22.3
97.5°	33.5	149.5	229.8	272.2	292.2
100°	51.3	223.1	307.9	377.0	401.6
102.5°	73.6	269.9	379.2	466.2	501.9
105°	98.2	316.8	479.6	553.3	597.9
107.5°	122.7	352.5	557.7	640.3	671.5
110°	151.7	381.5	606.8	749.6	758.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	178.5	403.8	633.6	803.1	852.2
115°	203.0	428.3	673.7	834.3	885.7
117.5°	232.0	446.2	698.3	852.2	908.0
120°	258.8	461.8	716.1	874.5	914.7
122.5°	283.3	479.6	729.5	892.3	937.0
125°	305.6	495.3	738.4	899.0	943.7
127.5°	327.9	508.6	740.6	901.3	948.1
130°	352.5	522.0	745.1	899.0	945.9
132.5°	377.0	535.4	742.9	892.3	934.7
135°	394.9	544.3	738.4	883.4	921.3
137.5°	412.7	551.0	734.0	870.0	905.7
140°	428.3	555.5	727.3	854.4	887.9
142.5°	446.2	557.7	722.8	838.8	867.8
145°	461.8	557.7	716.1	821.0	847.7
147.5°	477.4	555.5	707.2	803.1	825.4
150°	488.6	551.0	698.3	785.3	803.1
152.5°	497.5	546.6	687.1	765.2	783.0
155°	508.6	544.3	673.7	747.3	760.7
157.5°	517.6	544.3	658.1	727.3	740.6
160°	526.5	544.3	640.3	707.2	718.3
162.5°	537.6	544.3	615.7	678.2	689.3
165°	548.8	546.6	597.9	649.2	658.1
167.5°	555.5	546.6	580.0	613.5	622.4
170°	559.9	551.0	564.4	588.9	591.2
172.5°	562.2	555.5	553.3	564.4	564.4
175°	562.2	555.5	553.3	553.3	548.8
177.5°	562.2	557.7	557.7	555.5	548.8
180°	557.7	557.7	557.7	557.7	557.7

(END OF REPORT)