

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: P253475

Luminaire Tested: **J3-CL-80L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253475  
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-80L93050-1D-UNV-W2A-W-4 (3000K)  
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 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5951.4 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

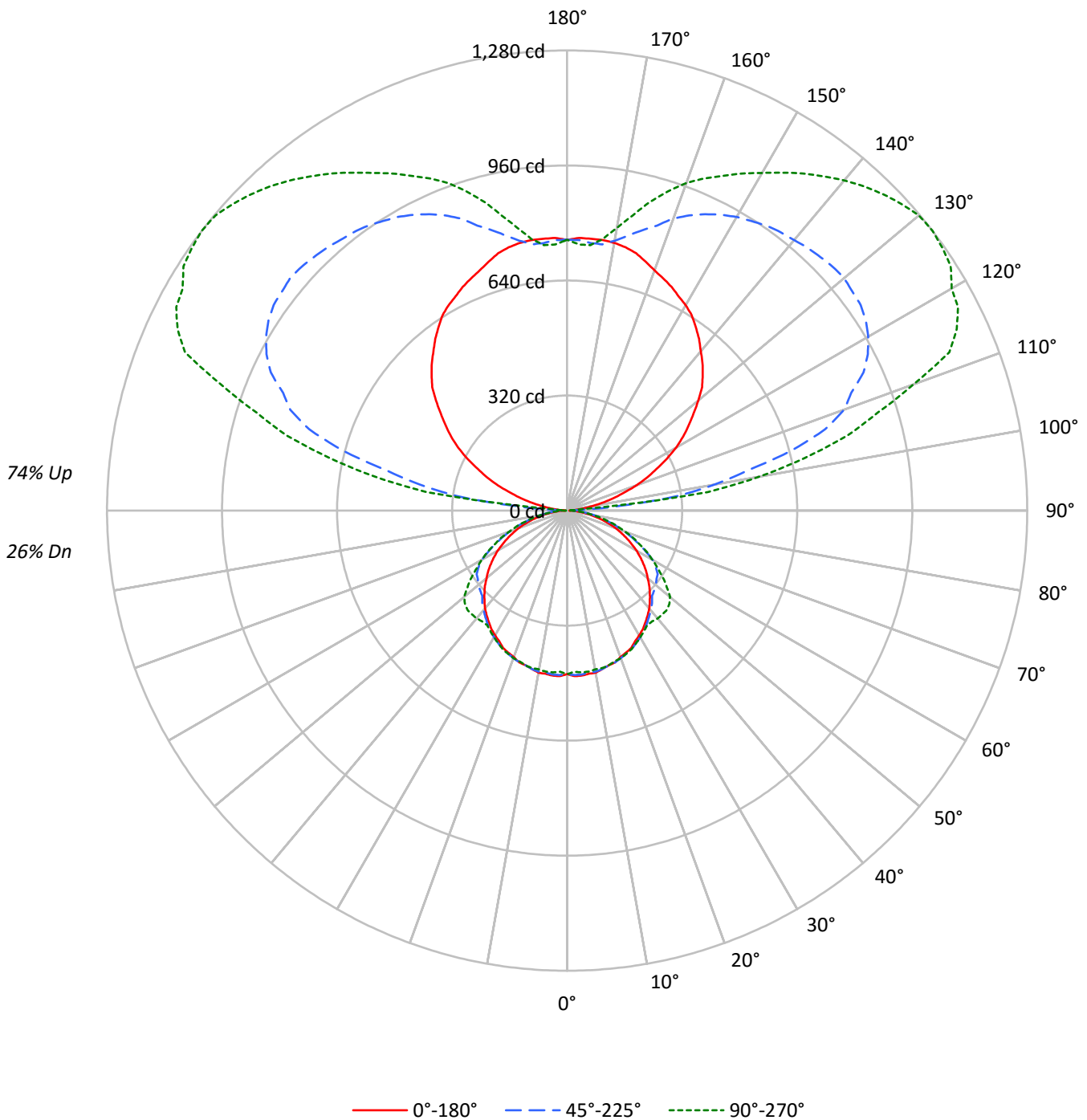
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3672	3672	3672
5°	3734	3710	3661
10°	3753	3728	3679
15°	3726	3726	3726
20°	3726	3752	3752
25°	3756	3783	3783
30°	3734	3790	3790
35°	3740	3799	3830
40°	3745	3809	4127
45°	3714	3817	4471
50°	3670	4048	4691
55°	3645	4324	4579
60°	3599	4426	4426
65°	3509	4201	4258
70°	3413	3982	4053
75°	3194	3759	3852
80°	2943	3640	3501
85°	2788	3909	3344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.4	0.7
10°-20°	125.9	2.1
20°-30°	194.5	3.3
30°-40°	241.3	4.1
40°-50°	270.0	4.5
50°-60°	263.9	4.4
60°-70°	208.2	3.5
70°-80°	126.0	2.1
80°-90°	44.9	0.8
90°-100°	154.6	2.6
100°-110°	597.8	10.0
110°-120°	821.6	13.8
120°-130°	831.1	14.0
130°-140°	736.6	12.4
140°-150°	582.6	9.8
150°-160°	406.8	6.8
160°-170°	230.2	3.9
170°-180°	72.2	1.2
0°-30°	363.8	6.1
0°-40°	605.1	10.2
0°-60°	1139.0	19.1
0°-90°	1517.9	25.5
90°-120°	1573.9	26.4
90°-150°	3724.3	62.6
90°-180°	4433.0	74.5
0°-180°	5951.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	461	455	458	455	452	44
15°	446	443	446	446	446	126
25°	422	416	425	425	425	193
35°	380	380	386	389	389	238
45°	325	328	334	376	392	251
55°	259	262	307	325	325	231
65°	184	193	220	223	223	181
75°	102	120	120	124	124	108
85°	30	48	42	39	36	32
90°	6	18	15	3	3	6
95°	24	120	145	30	30	30
105°	132	428	648	747	807	141
115°	274	578	910	1126	1196	273
125°	413	669	997	1214	1274	369
135°	533	735	997	1193	1244	411
145°	624	753	967	1108	1145	390
155°	687	735	910	1009	1027	317
165°	741	738	807	876	888	208
175°	759	750	747	747	741	72
180°	753	753	753	753	753	



TEST NUMBER: P253475

CATALOG NUMBER: J3-CL-80L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	460.8	454.8	457.8	454.8	448.8
5°	460.8	454.8	457.8	454.8	451.8
7.5°	457.8	454.8	454.8	451.8	451.8
10°	457.8	451.8	454.8	451.8	448.8
12.5°	451.8	448.8	451.8	448.8	448.8
15°	445.8	442.8	445.8	445.8	445.8
17.5°	442.8	436.7	442.8	442.8	439.8
20°	433.7	430.7	436.7	436.7	436.7
22.5°	427.7	424.7	430.7	430.7	430.7
25°	421.7	415.7	424.7	424.7	424.7
27.5°	409.6	409.6	415.7	418.7	415.7
30°	400.6	397.6	406.6	409.6	406.6
32.5°	391.6	388.6	397.6	400.6	397.6
35°	379.5	379.5	385.5	388.6	388.6
37.5°	367.5	367.5	373.5	376.5	388.6
40°	355.4	355.4	361.4	379.5	391.6
42.5°	340.4	340.4	349.4	376.5	391.6
45°	325.3	328.3	334.3	376.5	391.6
47.5°	310.2	313.3	328.3	373.5	385.5
50°	292.2	298.2	322.3	364.5	373.5
52.5°	277.1	280.1	313.3	349.4	349.4
55°	259.0	262.0	307.2	325.3	325.3
57.5°	241.0	244.0	292.2	298.2	298.2
60°	222.9	225.9	274.1	274.1	274.1
62.5°	201.8	207.8	247.0	250.0	250.0
65°	183.7	192.8	219.9	222.9	222.9
67.5°	162.6	177.7	195.8	198.8	198.8
70°	144.6	162.6	168.7	171.7	171.7
72.5°	123.5	141.6	144.6	147.6	147.6
75°	102.4	120.5	120.5	123.5	123.5
77.5°	81.3	96.4	99.4	99.4	99.4
80°	63.3	72.3	78.3	75.3	75.3
82.5°	45.2	57.2	57.2	57.2	54.2
85°	30.1	48.2	42.2	39.2	36.1
87.5°	18.1	42.2	24.1	21.1	21.1
90°	6.0	18.1	15.1	3.0	3.0
92.5°	12.0	30.1	15.1	12.0	9.0
95°	24.1	120.5	144.6	30.1	30.1
97.5°	45.2	201.8	310.2	367.5	394.6
100°	69.3	301.2	415.7	509.0	542.2
102.5°	99.4	364.5	512.0	629.5	677.7
105°	132.5	427.7	647.6	747.0	807.2
107.5°	165.7	475.9	753.0	864.5	906.6
110°	204.8	515.1	819.3	1012.0	1024.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	241.0	545.2	855.4	1084.3	1150.6
115°	274.1	578.3	909.6	1126.5	1195.8
117.5°	313.3	602.4	942.8	1150.6	1225.9
120°	349.4	623.5	966.9	1180.7	1234.9
122.5°	382.5	647.6	984.9	1204.8	1265.1
125°	412.6	668.7	997.0	1213.8	1274.1
127.5°	442.8	686.7	1000.0	1216.9	1280.1
130°	475.9	704.8	1006.0	1213.8	1277.1
132.5°	509.0	722.9	1003.0	1204.8	1262.0
135°	533.1	734.9	997.0	1192.8	1244.0
137.5°	557.2	744.0	991.0	1174.7	1222.9
140°	578.3	750.0	981.9	1153.6	1198.8
142.5°	602.4	753.0	975.9	1132.5	1171.7
145°	623.5	753.0	966.9	1108.4	1144.6
147.5°	644.6	750.0	954.8	1084.3	1114.5
150°	659.6	744.0	942.8	1060.2	1084.3
152.5°	671.7	737.9	927.7	1033.1	1057.2
155°	686.7	734.9	909.6	1009.0	1027.1
157.5°	698.8	734.9	888.5	981.9	1000.0
160°	710.8	734.9	864.5	954.8	969.9
162.5°	725.9	734.9	831.3	915.7	930.7
165°	741.0	737.9	807.2	876.5	888.5
167.5°	750.0	737.9	783.1	828.3	840.4
170°	756.0	744.0	762.0	795.2	798.2
172.5°	759.0	750.0	747.0	762.0	762.0
175°	759.0	750.0	747.0	747.0	741.0
177.5°	759.0	753.0	753.0	750.0	741.0
180°	753.0	753.0	753.0	753.0	753.0

(END OF REPORT)