

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: P253568

Luminaire Tested: **J3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2187.5 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

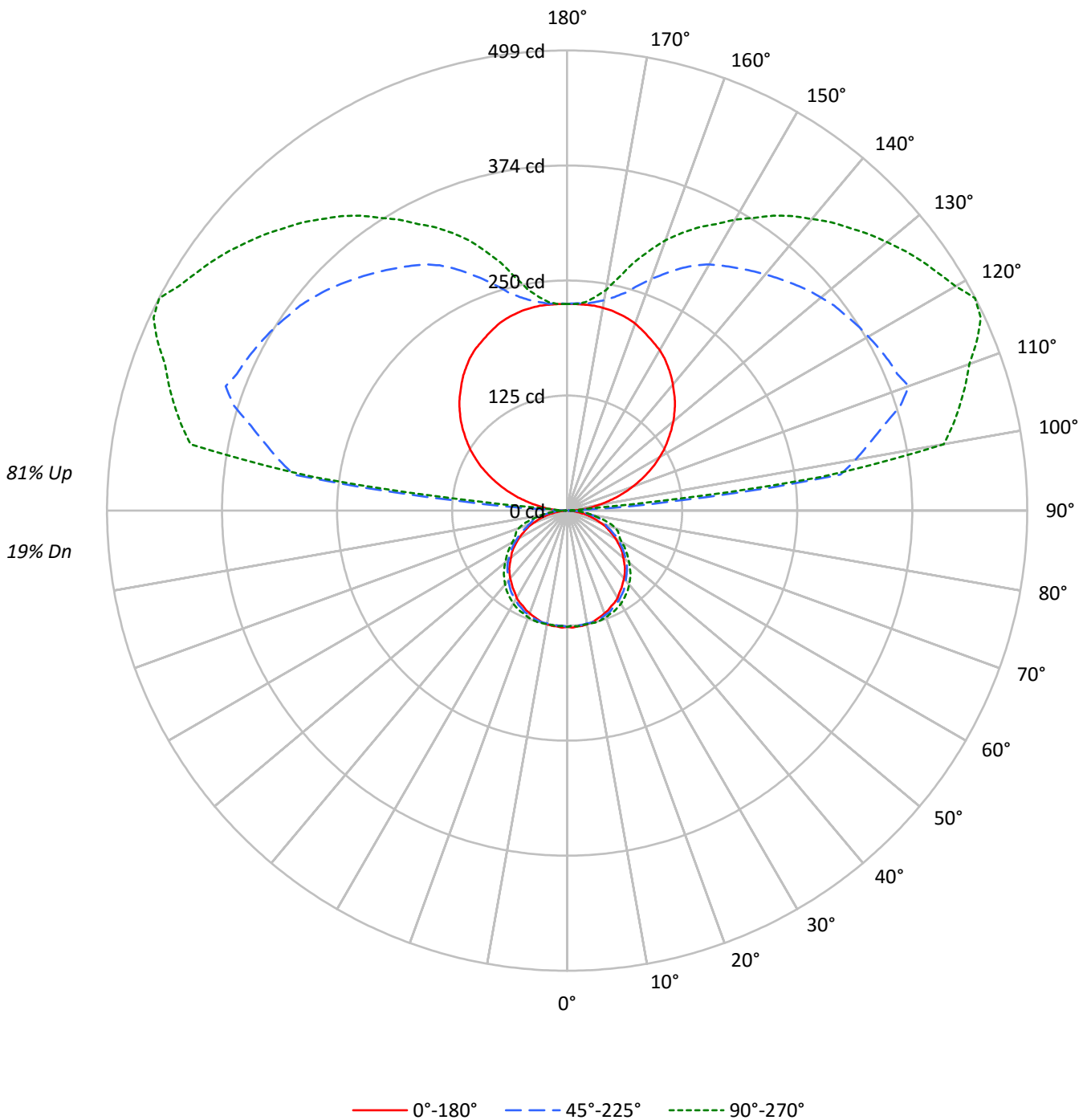
Input Watts (W): 16.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	86	82	79	80	76	73	70	57	55	53	40	39	37	24	23	23	15
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7
7	53	41	33	28	46	36	30	25	28	23	20	19	16	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	19	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4

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

	0°	45°	90°
0°	1018	1018	1018
5°	1022	1014	1022
10°	1026	1018	1026
15°	1022	1031	1046
20°	1019	1035	1059
25°	1015	1040	1073
30°	1019	1045	1088
35°	1012	1050	1095
40°	1014	1043	1102
45°	1013	1045	1109
50°	997	1044	1103
55°	999	1039	1103
60°	980	1025	1101
65°	946	1016	1177
70°	904	1036	1322
75°	845	1195	1341
80°	693	1172	1302
85°	602	1297	1473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.0	0.5
10°-20°	34.9	1.6
20°-30°	54.1	2.5
30°-40°	66.8	3.1
40°-50°	71.1	3.3
50°-60°	66.4	3.0
60°-70°	54.4	2.5
70°-80°	37.4	1.7
80°-90°	14.5	0.7
90°-100°	130.2	6.0
100°-110°	329.9	15.1
110°-120°	341.9	15.6
120°-130°	304.8	13.9
130°-140°	253.6	11.6
140°-150°	193.1	8.8
150°-160°	130.0	5.9
160°-170°	70.7	3.2
170°-180°	21.7	1.0
0°-30°	101.0	4.6
0°-40°	167.8	7.7
0°-60°	305.3	14.0
0°-90°	411.6	18.8
90°-120°	802.0	36.7
90°-150°	1553.5	71.0
90°-180°	1776.0	81.2
0°-180°	2187.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	126	126	126	126	126	
5°	126	126	125	126	126	12
15°	122	123	123	124	125	35
25°	114	115	117	120	120	53
35°	103	104	106	110	111	64
45°	89	90	92	95	97	68
55°	71	72	74	77	78	63
65°	50	51	53	59	62	49
75°	27	29	38	42	43	28
85°	6	11	14	16	16	7
90°	1	1	1	1	1	2
95°	19	144	114	18	18	18
105°	55	228	355	419	441	58
115°	96	235	385	478	495	95
125°	134	241	369	447	471	119
135°	165	248	347	416	433	127
145°	190	244	321	374	390	119
155°	208	232	290	327	339	96
165°	220	226	245	269	278	62
175°	224	224	225	227	227	21
180°	224	224	224	224	224	



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CATALOG NUMBER: J3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	126.1	126.1	126.1	126.1	126.1
2.5°	127.0	127.0	125.1	126.1	125.1
5°	126.1	126.1	125.1	126.1	126.1
7.5°	126.1	126.1	125.1	126.1	125.1
10°	125.1	125.1	124.2	125.1	125.1
12.5°	124.2	124.2	124.2	125.1	125.1
15°	122.3	123.3	123.3	124.2	125.1
17.5°	120.5	121.4	122.3	123.3	124.2
20°	118.6	119.5	120.5	122.3	123.3
22.5°	116.7	117.7	119.5	121.4	121.4
25°	113.9	114.9	116.7	119.5	120.5
27.5°	112.1	113.0	114.9	117.7	118.6
30°	109.3	110.2	112.1	115.8	116.7
32.5°	105.5	107.4	109.3	113.0	113.9
35°	102.7	103.7	106.5	110.2	111.1
37.5°	99.0	99.9	102.7	106.5	108.3
40°	96.2	97.1	99.0	102.7	104.6
42.5°	92.4	93.4	95.2	99.0	100.9
45°	88.7	89.6	91.5	95.2	97.1
47.5°	84.0	85.9	87.8	90.6	92.4
50°	79.4	81.2	83.1	86.8	87.8
52.5°	75.6	76.6	78.4	81.2	83.1
55°	71.0	71.9	73.8	76.6	78.4
57.5°	65.4	67.2	69.1	71.9	73.8
60°	60.7	62.6	63.5	67.2	68.2
62.5°	55.1	57.0	58.8	61.6	64.4
65°	49.5	51.4	53.2	58.8	61.6
67.5°	44.8	45.8	47.6	55.1	59.8
70°	38.3	40.2	43.9	53.2	56.0
72.5°	32.7	34.6	40.2	48.6	50.4
75°	27.1	28.9	38.3	42.0	43.0
77.5°	21.5	23.3	32.7	34.6	34.6
80°	14.9	19.6	25.2	28.0	28.0
82.5°	10.3	16.8	19.6	21.5	21.5
85°	6.5	11.2	14.0	15.9	15.9
87.5°	3.7	7.5	11.2	12.1	12.1
90°	0.9	0.9	0.9	0.9	0.9
92.5°	10.3	29.9	8.4	8.4	8.4
95°	18.7	143.8	113.9	17.7	17.7
97.5°	26.1	174.6	298.8	369.8	276.4
100°	34.6	207.3	317.5	392.2	414.6
102.5°	43.9	222.2	335.2	404.3	428.6
105°	55.1	227.9	354.9	419.3	440.8
107.5°	65.4	230.7	379.1	432.4	452.9
110°	75.6	232.5	394.1	447.3	464.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	85.9	233.5	387.5	466.9	480.9
115°	96.2	235.3	384.7	478.1	494.9
117.5°	106.5	236.3	381.0	466.9	498.7
120°	115.8	238.1	377.3	460.4	486.5
122.5°	125.1	239.1	373.5	453.8	478.1
125°	133.5	240.9	368.9	447.3	470.6
127.5°	141.9	242.8	365.1	439.8	462.2
130°	150.3	245.6	359.5	432.4	452.9
132.5°	157.8	247.5	353.9	424.0	443.6
135°	165.3	248.4	347.4	415.5	433.3
137.5°	171.8	248.4	340.8	406.2	424.0
140°	178.4	247.5	334.3	395.9	412.7
142.5°	184.9	246.5	327.8	384.7	402.5
145°	190.5	243.7	321.2	373.5	390.3
147.5°	196.1	240.9	314.7	361.4	376.3
150°	200.8	237.2	308.2	348.3	364.2
152.5°	204.5	234.4	299.8	337.1	350.2
155°	208.2	231.6	289.5	326.8	339.0
157.5°	212.0	229.7	278.3	314.7	325.9
160°	215.7	228.8	267.1	300.7	311.9
162.5°	218.5	226.9	255.9	284.8	295.1
165°	220.4	226.0	244.7	268.9	278.3
167.5°	222.2	225.0	237.2	251.2	258.7
170°	223.2	224.1	231.6	239.1	242.8
172.5°	224.1	224.1	227.9	231.6	233.5
175°	224.1	224.1	225.0	226.9	226.9
177.5°	224.1	225.0	225.0	225.0	224.1
180°	224.1	224.1	224.1	224.1	224.1

(END OF REPORT)