

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: P253470

Luminaire Tested: **J3-CL-20L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253470  
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-20L93050-1D-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: 1746.2 lumens  
Efficiency: N/A  
Efficacy: 105.2 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

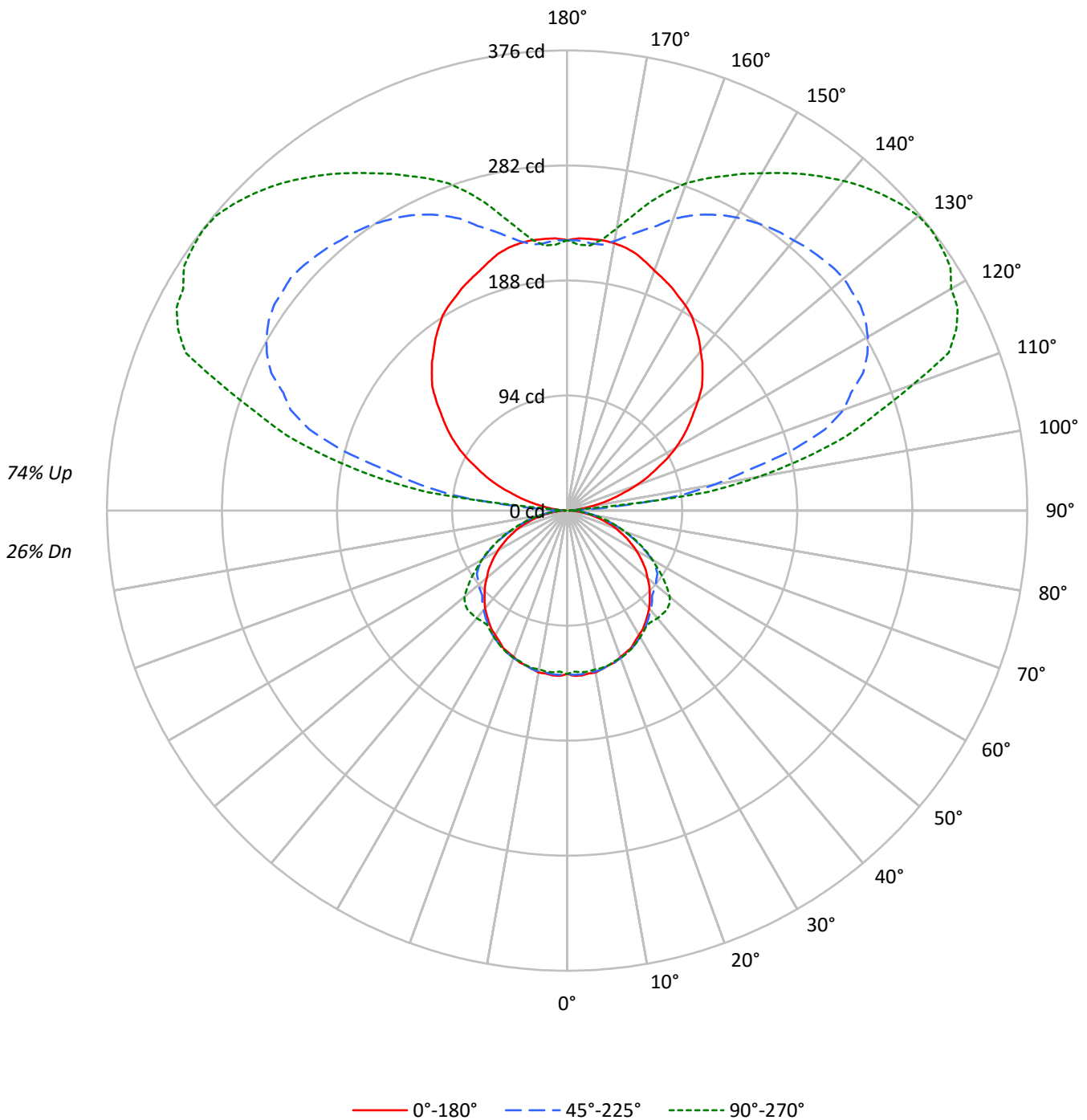
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1078	1078	1078
5°	1096	1088	1075
10°	1101	1094	1080
15°	1093	1093	1093
20°	1094	1101	1101
25°	1102	1110	1110
30°	1095	1112	1112
35°	1098	1115	1123
40°	1099	1118	1211
45°	1089	1120	1312
50°	1076	1188	1376
55°	1070	1268	1343
60°	1056	1298	1298
65°	1030	1232	1249
70°	1001	1168	1190
75°	936	1104	1129
80°	865	1069	1027
85°	815	1149	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.7	0.7
10°-20°	36.9	2.1
20°-30°	57.1	3.3
30°-40°	70.8	4.1
40°-50°	79.2	4.5
50°-60°	77.4	4.4
60°-70°	61.1	3.5
70°-80°	37.0	2.1
80°-90°	13.2	0.8
90°-100°	45.4	2.6
100°-110°	175.4	10.0
110°-120°	241.1	13.8
120°-130°	243.9	14.0
130°-140°	216.1	12.4
140°-150°	170.9	9.8
150°-160°	119.4	6.8
160°-170°	67.5	3.9
170°-180°	21.2	1.2
0°-30°	106.7	6.1
0°-40°	177.5	10.2
0°-60°	334.2	19.1
0°-90°	445.4	25.5
90°-120°	461.8	26.4
90°-150°	1092.7	62.6
90°-180°	1301.0	74.5
0°-180°	1746.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	134	134	134	134	134	
5°	135	134	134	134	133	13
15°	131	130	131	131	131	37
25°	124	122	125	125	125	57
35°	111	111	113	114	114	70
45°	95	96	98	110	115	74
55°	76	77	90	95	95	68
65°	54	57	64	65	65	53
75°	30	35	35	36	36	32
85°	9	14	12	12	11	9
90°	2	5	4	1	1	2
95°	7	35	42	9	9	9
105°	39	126	190	219	237	41
115°	80	170	267	330	351	80
125°	121	196	292	356	374	108
135°	156	216	292	350	365	120
145°	183	221	284	325	336	114
155°	202	216	267	296	301	93
165°	217	216	237	257	261	61
175°	223	220	219	219	217	21
180°	221	221	221	221	221	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	133.5	133.5	133.5	133.5	133.5
2.5°	135.2	133.5	134.3	133.5	131.7
5°	135.2	133.5	134.3	133.5	132.6
7.5°	134.3	133.5	133.5	132.6	132.6
10°	134.3	132.6	133.5	132.6	131.7
12.5°	132.6	131.7	132.6	131.7	131.7
15°	130.8	129.9	130.8	130.8	130.8
17.5°	129.9	128.1	129.9	129.9	129.0
20°	127.3	126.4	128.1	128.1	128.1
22.5°	125.5	124.6	126.4	126.4	126.4
25°	123.7	122.0	124.6	124.6	124.6
27.5°	120.2	120.2	122.0	122.8	122.0
30°	117.5	116.7	119.3	120.2	119.3
32.5°	114.9	114.0	116.7	117.5	116.7
35°	111.4	111.4	113.1	114.0	114.0
37.5°	107.8	107.8	109.6	110.5	114.0
40°	104.3	104.3	106.1	111.4	114.9
42.5°	99.9	99.9	102.5	110.5	114.9
45°	95.4	96.3	98.1	110.5	114.9
47.5°	91.0	91.9	96.3	109.6	113.1
50°	85.7	87.5	94.6	106.9	109.6
52.5°	81.3	82.2	91.9	102.5	102.5
55°	76.0	76.9	90.1	95.4	95.4
57.5°	70.7	71.6	85.7	87.5	87.5
60°	65.4	66.3	80.4	80.4	80.4
62.5°	59.2	61.0	72.5	73.4	73.4
65°	53.9	56.6	64.5	65.4	65.4
67.5°	47.7	52.1	57.4	58.3	58.3
70°	42.4	47.7	49.5	50.4	50.4
72.5°	36.2	41.5	42.4	43.3	43.3
75°	30.0	35.4	35.4	36.2	36.2
77.5°	23.9	28.3	29.2	29.2	29.2
80°	18.6	21.2	23.0	22.1	22.1
82.5°	13.3	16.8	16.8	16.8	15.9
85°	8.8	14.1	12.4	11.5	10.6
87.5°	5.3	12.4	7.1	6.2	6.2
90°	1.8	5.3	4.4	0.9	0.9
92.5°	3.5	8.8	4.4	3.5	2.7
95°	7.1	35.4	42.4	8.8	8.8
97.5°	13.3	59.2	91.0	107.8	115.8
100°	20.3	88.4	122.0	149.4	159.1
102.5°	29.2	106.9	150.2	184.7	198.8
105°	38.9	125.5	190.0	219.2	236.9
107.5°	48.6	139.6	220.9	253.6	266.0
110°	60.1	151.1	240.4	296.9	300.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	70.7	160.0	251.0	318.2	337.6
115°	80.4	169.7	266.9	330.5	350.9
117.5°	91.9	176.8	276.6	337.6	359.7
120°	102.5	182.9	283.7	346.4	362.3
122.5°	112.2	190.0	289.0	353.5	371.2
125°	121.1	196.2	292.5	356.2	373.8
127.5°	129.9	201.5	293.4	357.0	375.6
130°	139.6	206.8	295.2	356.2	374.7
132.5°	149.4	212.1	294.3	353.5	370.3
135°	156.4	215.6	292.5	350.0	365.0
137.5°	163.5	218.3	290.8	344.7	358.8
140°	169.7	220.1	288.1	338.5	351.7
142.5°	176.8	220.9	286.3	332.3	343.8
145°	182.9	220.9	283.7	325.2	335.8
147.5°	189.1	220.1	280.2	318.2	327.0
150°	193.5	218.3	276.6	311.1	318.2
152.5°	197.1	216.5	272.2	303.1	310.2
155°	201.5	215.6	266.9	296.1	301.4
157.5°	205.0	215.6	260.7	288.1	293.4
160°	208.6	215.6	253.6	280.2	284.6
162.5°	213.0	215.6	243.9	268.7	273.1
165°	217.4	216.5	236.9	257.2	260.7
167.5°	220.1	216.5	229.8	243.0	246.6
170°	221.8	218.3	223.6	233.3	234.2
172.5°	222.7	220.1	219.2	223.6	223.6
175°	222.7	220.1	219.2	219.2	217.4
177.5°	222.7	220.9	220.9	220.1	217.4
180°	220.9	220.9	220.9	220.9	220.9

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