

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: P253440

Luminaire Tested: **J3-CL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253440  
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-20L83050-1D-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, 80 CRI LEDS, TUNED TO 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2121.2 lumens  
Efficiency: N/A  
Efficacy: 130.9 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

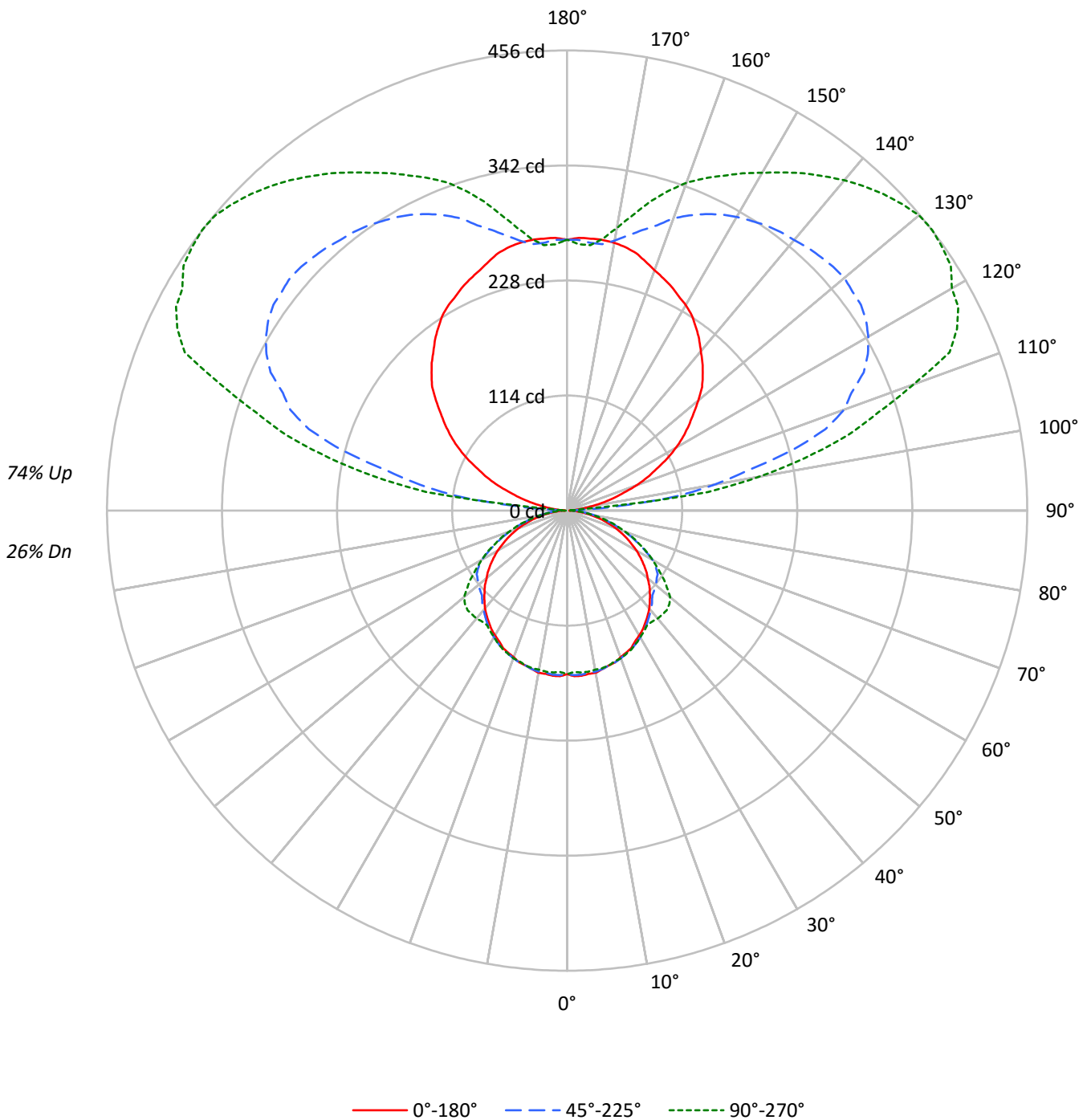
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1309	1309	1309
5°	1331	1323	1305
10°	1338	1329	1312
15°	1328	1328	1328
20°	1328	1338	1338
25°	1339	1349	1349
30°	1331	1351	1351
35°	1333	1354	1365
40°	1335	1357	1471
45°	1323	1361	1594
50°	1307	1443	1672
55°	1299	1541	1631
60°	1282	1577	1577
65°	1251	1498	1517
70°	1216	1419	1445
75°	1138	1338	1372
80°	1046	1297	1246
85°	991	1389	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.5	0.7
10°-20°	44.9	2.1
20°-30°	69.3	3.3
30°-40°	86.0	4.1
40°-50°	96.2	4.5
50°-60°	94.0	4.4
60°-70°	74.2	3.5
70°-80°	44.9	2.1
80°-90°	16.0	0.8
90°-100°	55.1	2.6
100°-110°	213.1	10.0
110°-120°	292.8	13.8
120°-130°	296.2	14.0
130°-140°	262.6	12.4
140°-150°	207.6	9.8
150°-160°	145.0	6.8
160°-170°	82.0	3.9
170°-180°	25.7	1.2
0°-30°	129.7	6.1
0°-40°	215.7	10.2
0°-60°	406.0	19.1
0°-90°	541.0	25.5
90°-120°	561.0	26.4
90°-150°	1327.4	62.6
90°-180°	1580.0	74.5
0°-180°	2121.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	162	162	162	162	162	
5°	164	162	163	162	161	16
15°	159	158	159	159	159	45
25°	150	148	151	151	151	69
35°	135	135	137	138	138	85
45°	116	117	119	134	140	89
55°	92	93	110	116	116	82
65°	66	69	78	79	79	65
75°	36	43	43	44	44	39
85°	11	17	15	14	13	11
90°	2	6	5	1	1	2
95°	9	43	52	11	11	11
105°	47	152	231	266	288	50
115°	98	206	324	402	426	97
125°	147	238	355	433	454	132
135°	190	262	355	425	443	146
145°	222	268	345	395	408	139
155°	245	262	324	360	366	113
165°	264	263	288	312	317	74
175°	270	267	266	266	264	26
180°	268	268	268	268	268	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	162.1	162.1	162.1	162.1	162.1
2.5°	164.3	162.1	163.2	162.1	160.0
5°	164.3	162.1	163.2	162.1	161.0
7.5°	163.2	162.1	162.1	161.0	161.0
10°	163.2	161.0	162.1	161.0	160.0
12.5°	161.0	160.0	161.0	160.0	160.0
15°	158.9	157.8	158.9	158.9	158.9
17.5°	157.8	155.7	157.8	157.8	156.7
20°	154.6	153.5	155.7	155.7	155.7
22.5°	152.5	151.4	153.5	153.5	153.5
25°	150.3	148.2	151.4	151.4	151.4
27.5°	146.0	146.0	148.2	149.2	148.2
30°	142.8	141.7	144.9	146.0	144.9
32.5°	139.6	138.5	141.7	142.8	141.7
35°	135.3	135.3	137.4	138.5	138.5
37.5°	131.0	131.0	133.1	134.2	138.5
40°	126.7	126.7	128.8	135.3	139.6
42.5°	121.3	121.3	124.5	134.2	139.6
45°	115.9	117.0	119.2	134.2	139.6
47.5°	110.6	111.7	117.0	133.1	137.4
50°	104.1	106.3	114.9	129.9	133.1
52.5°	98.8	99.8	111.7	124.5	124.5
55°	92.3	93.4	109.5	115.9	115.9
57.5°	85.9	87.0	104.1	106.3	106.3
60°	79.4	80.5	97.7	97.7	97.7
62.5°	71.9	74.1	88.0	89.1	89.1
65°	65.5	68.7	78.4	79.4	79.4
67.5°	58.0	63.3	69.8	70.9	70.9
70°	51.5	58.0	60.1	61.2	61.2
72.5°	44.0	50.5	51.5	52.6	52.6
75°	36.5	42.9	42.9	44.0	44.0
77.5°	29.0	34.4	35.4	35.4	35.4
80°	22.5	25.8	27.9	26.8	26.8
82.5°	16.1	20.4	20.4	20.4	19.3
85°	10.7	17.2	15.0	14.0	12.9
87.5°	6.4	15.0	8.6	7.5	7.5
90°	2.1	6.4	5.4	1.1	1.1
92.5°	4.3	10.7	5.4	4.3	3.2
95°	8.6	42.9	51.5	10.7	10.7
97.5°	16.1	71.9	110.6	131.0	140.6
100°	24.7	107.4	148.2	181.4	193.2
102.5°	35.4	129.9	182.5	224.4	241.6
105°	47.2	152.5	230.8	266.3	287.7
107.5°	59.0	169.6	268.4	308.1	323.2
110°	73.0	183.6	292.0	360.7	365.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	85.9	194.3	304.9	386.5	410.1
115°	97.7	206.1	324.2	401.5	426.2
117.5°	111.7	214.7	336.0	410.1	437.0
120°	124.5	222.2	344.6	420.9	440.2
122.5°	136.3	230.8	351.1	429.4	450.9
125°	147.1	238.3	355.4	432.7	454.1
127.5°	157.8	244.8	356.4	433.7	456.3
130°	169.6	251.2	358.6	432.7	455.2
132.5°	181.4	257.7	357.5	429.4	449.8
135°	190.0	262.0	355.4	425.1	443.4
137.5°	198.6	265.2	353.2	418.7	435.9
140°	206.1	267.3	350.0	411.2	427.3
142.5°	214.7	268.4	347.8	403.7	417.6
145°	222.2	268.4	344.6	395.1	408.0
147.5°	229.8	267.3	340.3	386.5	397.2
150°	235.1	265.2	336.0	377.9	386.5
152.5°	239.4	263.0	330.7	368.2	376.8
155°	244.8	262.0	324.2	359.7	366.1
157.5°	249.1	262.0	316.7	350.0	356.4
160°	253.4	262.0	308.1	340.3	345.7
162.5°	258.7	262.0	296.3	326.4	331.7
165°	264.1	263.0	287.7	312.4	316.7
167.5°	267.3	263.0	279.1	295.2	299.5
170°	269.5	265.2	271.6	283.4	284.5
172.5°	270.5	267.3	266.3	271.6	271.6
175°	270.5	267.3	266.3	266.3	264.1
177.5°	270.5	268.4	268.4	267.3	264.1
180°	268.4	268.4	268.4	268.4	268.4

(END OF REPORT)