

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: P274981

Luminaire Tested: **J3-CL-20L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 10/15/2018

Test Information

Test Method: LM-79-08
Report Number: P274981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/15/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-20L82765-1D-UNV-W2A-W-4 (5700K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2340.0 lumens
Efficiency: N/A
Efficacy: 140.1 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

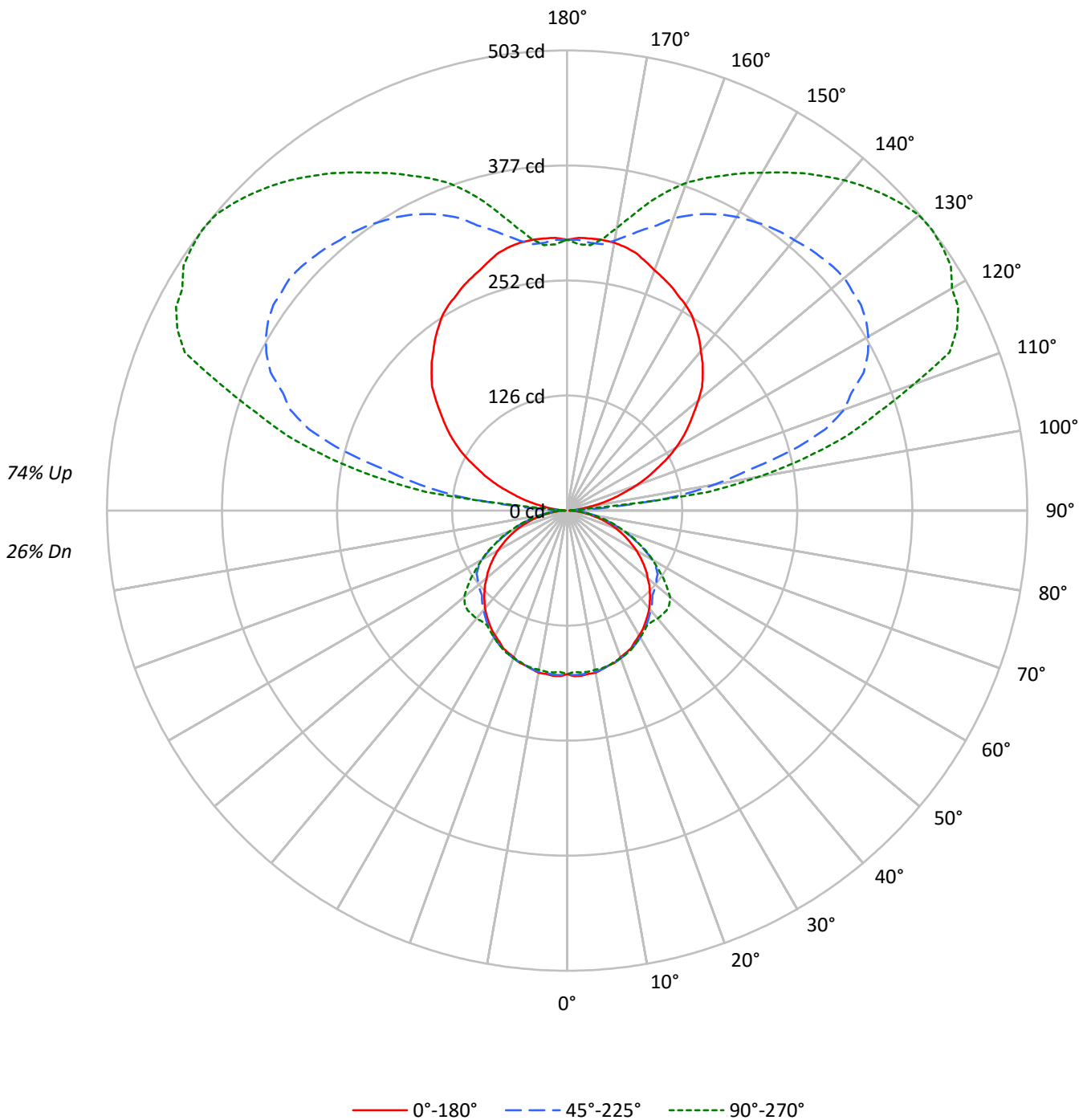
Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1443	1443	1443
5°	1468	1459	1439
10°	1476	1466	1447
15°	1465	1465	1465
20°	1465	1475	1475
25°	1477	1488	1488
30°	1468	1491	1491
35°	1470	1494	1506
40°	1472	1498	1623
45°	1460	1501	1758
50°	1443	1591	1845
55°	1434	1700	1800
60°	1414	1741	1741
65°	1379	1652	1673
70°	1341	1565	1593
75°	1257	1478	1516
80°	1158	1432	1376
85°	1093	1538	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.7
10°-20°	49.5	2.1
20°-30°	76.5	3.3
30°-40°	94.9	4.1
40°-50°	106.2	4.5
50°-60°	103.7	4.4
60°-70°	81.8	3.5
70°-80°	49.5	2.1
80°-90°	17.6	0.8
90°-100°	60.8	2.6
100°-110°	235.0	10.0
110°-120°	323.0	13.8
120°-130°	326.8	14.0
130°-140°	289.6	12.4
140°-150°	229.1	9.8
150°-160°	159.9	6.8
160°-170°	90.5	3.9
170°-180°	28.4	1.2
0°-30°	143.0	6.1
0°-40°	237.9	10.2
0°-60°	447.8	19.1
0°-90°	596.8	25.5
90°-120°	618.8	26.4
90°-150°	1464.4	62.6
90°-180°	1743.0	74.5
0°-180°	2340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	179	179	179	179	179	
5°	181	179	180	179	178	17
15°	175	174	175	175	175	50
25°	166	163	167	167	167	76
35°	149	149	152	153	153	93
45°	128	129	132	148	154	99
55°	102	103	121	128	128	91
65°	72	76	86	88	88	71
75°	40	47	47	49	49	43
85°	12	19	17	15	14	12
90°	2	7	6	1	1	2
95°	10	47	57	12	12	12
105°	52	168	255	294	317	55
115°	108	227	358	443	470	108
125°	162	263	392	477	501	145
135°	210	289	392	469	489	161
145°	245	296	380	436	450	153
155°	270	289	358	397	404	125
165°	291	290	317	345	349	82
175°	298	295	294	294	291	28
180°	296	296	296	296	296	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	178.8	178.8	178.8	178.8	178.8
2.5°	181.2	178.8	180.0	178.8	176.5
5°	181.2	178.8	180.0	178.8	177.6
7.5°	180.0	178.8	178.8	177.6	177.6
10°	180.0	177.6	178.8	177.6	176.5
12.5°	177.6	176.5	177.6	176.5	176.5
15°	175.3	174.1	175.3	175.3	175.3
17.5°	174.1	171.7	174.1	174.1	172.9
20°	170.5	169.4	171.7	171.7	171.7
22.5°	168.2	167.0	169.4	169.4	169.4
25°	165.8	163.4	167.0	167.0	167.0
27.5°	161.1	161.1	163.4	164.6	163.4
30°	157.5	156.3	159.9	161.1	159.9
32.5°	154.0	152.8	156.3	157.5	156.3
35°	149.2	149.2	151.6	152.8	152.8
37.5°	144.5	144.5	146.9	148.0	152.8
40°	139.7	139.7	142.1	149.2	154.0
42.5°	133.8	133.8	137.4	148.0	154.0
45°	127.9	129.1	131.5	148.0	154.0
47.5°	122.0	123.2	129.1	146.9	151.6
50°	114.9	117.2	126.7	143.3	146.9
52.5°	109.0	110.1	123.2	137.4	137.4
55°	101.9	103.0	120.8	127.9	127.9
57.5°	94.7	95.9	114.9	117.2	117.2
60°	87.6	88.8	107.8	107.8	107.8
62.5°	79.3	81.7	97.1	98.3	98.3
65°	72.2	75.8	86.5	87.6	87.6
67.5°	64.0	69.9	77.0	78.2	78.2
70°	56.8	64.0	66.3	67.5	67.5
72.5°	48.6	55.7	56.8	58.0	58.0
75°	40.3	47.4	47.4	48.6	48.6
77.5°	32.0	37.9	39.1	39.1	39.1
80°	24.9	28.4	30.8	29.6	29.6
82.5°	17.8	22.5	22.5	22.5	21.3
85°	11.8	18.9	16.6	15.4	14.2
87.5°	7.1	16.6	9.5	8.3	8.3
90°	2.4	7.1	5.9	1.2	1.2
92.5°	4.7	11.8	5.9	4.7	3.6
95°	9.5	47.4	56.8	11.8	11.8
97.5°	17.8	79.3	122.0	144.5	155.1
100°	27.2	118.4	163.4	200.1	213.2
102.5°	39.1	143.3	201.3	247.5	266.5
105°	52.1	168.2	254.6	293.7	317.4
107.5°	65.1	187.1	296.1	339.9	356.5
110°	80.5	202.5	322.1	397.9	402.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.7	214.4	336.3	426.4	452.4
115°	107.8	227.4	357.7	442.9	470.2
117.5°	123.2	236.9	370.7	452.4	482.0
120°	137.4	245.2	380.2	464.3	485.6
122.5°	150.4	254.6	387.3	473.7	497.4
125°	162.3	262.9	392.0	477.3	501.0
127.5°	174.1	270.0	393.2	478.5	503.3
130°	187.1	277.1	395.6	477.3	502.2
132.5°	200.1	284.2	394.4	473.7	496.2
135°	209.6	289.0	392.0	469.0	489.1
137.5°	219.1	292.5	389.6	461.9	480.8
140°	227.4	294.9	386.1	453.6	471.4
142.5°	236.9	296.1	383.7	445.3	460.7
145°	245.2	296.1	380.2	435.8	450.0
147.5°	253.4	294.9	375.4	426.4	438.2
150°	259.4	292.5	370.7	416.9	426.4
152.5°	264.1	290.2	364.8	406.2	415.7
155°	270.0	289.0	357.7	396.7	403.9
157.5°	274.8	289.0	349.4	386.1	393.2
160°	279.5	289.0	339.9	375.4	381.3
162.5°	285.4	289.0	326.9	360.0	366.0
165°	291.3	290.2	317.4	344.6	349.4
167.5°	294.9	290.2	307.9	325.7	330.4
170°	297.3	292.5	299.6	312.7	313.8
172.5°	298.4	294.9	293.7	299.6	299.6
175°	298.4	294.9	293.7	293.7	291.3
177.5°	298.4	296.1	296.1	294.9	291.3
180°	296.1	296.1	296.1	296.1	296.1

(END OF REPORT)