

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: P274978

Luminaire Tested: **J3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274978
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-20L82765-1D-UNV-W2A-W-4 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.1 lumens
Efficiency: N/A
Efficacy: 136.5 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

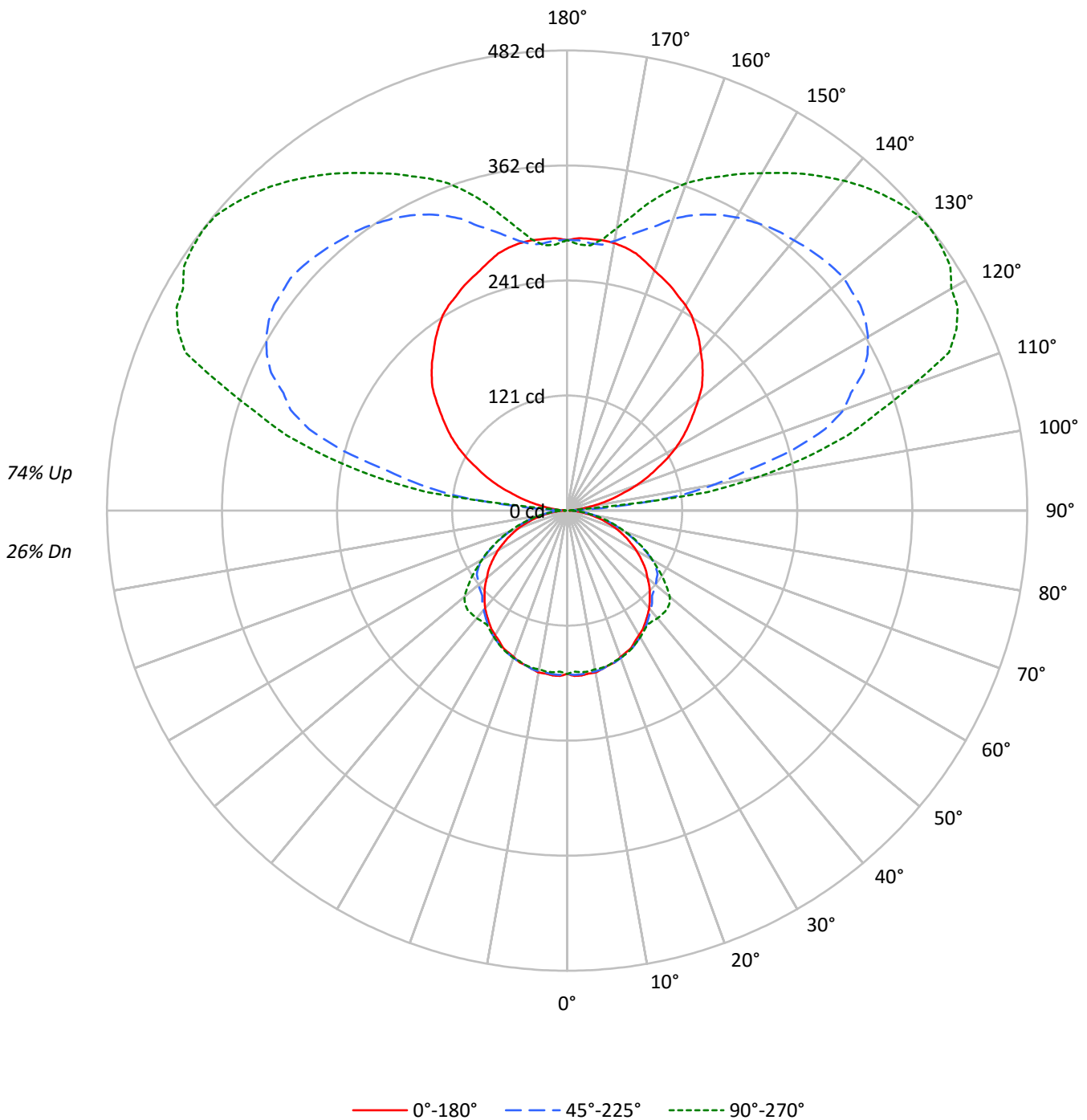
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274978

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P274978

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)

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°	1381	1381	1381
5°	1405	1395	1378
10°	1412	1403	1384
15°	1402	1402	1402
20°	1402	1412	1412
25°	1414	1423	1423
30°	1405	1426	1426
35°	1407	1430	1441
40°	1409	1433	1552
45°	1397	1436	1682
50°	1380	1523	1765
55°	1372	1627	1723
60°	1355	1665	1665
65°	1320	1580	1603
70°	1284	1499	1525
75°	1201	1413	1450
80°	1106	1371	1316
85°	1047	1473	1260



TEST NUMBER: P274978

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.7
10°-20°	47.4	2.1
20°-30°	73.2	3.3
30°-40°	90.8	4.1
40°-50°	101.6	4.5
50°-60°	99.3	4.4
60°-70°	78.3	3.5
70°-80°	47.4	2.1
80°-90°	16.9	0.8
90°-100°	58.2	2.6
100°-110°	224.9	10.0
110°-120°	309.1	13.8
120°-130°	312.7	14.0
130°-140°	277.1	12.4
140°-150°	219.2	9.8
150°-160°	153.0	6.8
160°-170°	86.6	3.9
170°-180°	27.2	1.2
0°-30°	136.9	6.1
0°-40°	227.7	10.2
0°-60°	428.5	19.1
0°-90°	571.1	25.5
90°-120°	592.1	26.4
90°-150°	1401.2	62.6
90°-180°	1668.0	74.5
0°-180°	2239.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	171	171	171	171	171	
5°	173	171	172	171	170	16
15°	168	167	168	168	168	48
25°	159	156	160	160	160	73
35°	143	143	145	146	146	89
45°	122	124	126	142	147	94
55°	98	99	116	122	122	87
65°	69	72	83	84	84	68
75°	38	45	45	46	46	41
85°	11	18	16	15	14	12
90°	2	7	6	1	1	2
95°	9	45	54	11	11	11
105°	50	161	244	281	304	53
115°	103	218	342	424	450	103
125°	155	252	375	457	479	139
135°	201	276	375	449	468	154
145°	235	283	364	417	431	147
155°	258	276	342	380	386	119
165°	279	278	304	330	334	78
175°	286	282	281	281	279	27
180°	283	283	283	283	283	



TEST NUMBER: P274978

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	171.1	171.1	171.1	171.1	171.1
2.5°	173.4	171.1	172.2	171.1	168.8
5°	173.4	171.1	172.2	171.1	170.0
7.5°	172.2	171.1	171.1	170.0	170.0
10°	172.2	170.0	171.1	170.0	168.8
12.5°	170.0	168.8	170.0	168.8	168.8
15°	167.7	166.6	167.7	167.7	167.7
17.5°	166.6	164.3	166.6	166.6	165.5
20°	163.2	162.1	164.3	164.3	164.3
22.5°	160.9	159.8	162.1	162.1	162.1
25°	158.7	156.4	159.8	159.8	159.8
27.5°	154.1	154.1	156.4	157.5	156.4
30°	150.7	149.6	153.0	154.1	153.0
32.5°	147.3	146.2	149.6	150.7	149.6
35°	142.8	142.8	145.1	146.2	146.2
37.5°	138.3	138.3	140.5	141.7	146.2
40°	133.7	133.7	136.0	142.8	147.3
42.5°	128.1	128.1	131.5	141.7	147.3
45°	122.4	123.5	125.8	141.7	147.3
47.5°	116.7	117.9	123.5	140.5	145.1
50°	109.9	112.2	121.3	137.1	140.5
52.5°	104.3	105.4	117.9	131.5	131.5
55°	97.5	98.6	115.6	122.4	122.4
57.5°	90.7	91.8	109.9	112.2	112.2
60°	83.9	85.0	103.1	103.1	103.1
62.5°	75.9	78.2	92.9	94.1	94.1
65°	69.1	72.5	82.7	83.9	83.9
67.5°	61.2	66.9	73.7	74.8	74.8
70°	54.4	61.2	63.5	64.6	64.6
72.5°	46.5	53.3	54.4	55.5	55.5
75°	38.5	45.3	45.3	46.5	46.5
77.5°	30.6	36.3	37.4	37.4	37.4
80°	23.8	27.2	29.5	28.3	28.3
82.5°	17.0	21.5	21.5	21.5	20.4
85°	11.3	18.1	15.9	14.7	13.6
87.5°	6.8	15.9	9.1	7.9	7.9
90°	2.3	6.8	5.7	1.1	1.1
92.5°	4.5	11.3	5.7	4.5	3.4
95°	9.1	45.3	54.4	11.3	11.3
97.5°	17.0	75.9	116.7	138.3	148.5
100°	26.1	113.3	156.4	191.5	204.0
102.5°	37.4	137.1	192.6	236.8	255.0
105°	49.9	160.9	243.6	281.0	303.7
107.5°	62.3	179.0	283.3	325.2	341.1
110°	77.1	193.8	308.2	380.8	385.3



TEST NUMBER: P274978

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.7	205.1	321.8	408.0	432.9
115°	103.1	217.6	342.2	423.8	449.9
117.5°	117.9	226.6	354.7	432.9	461.2
120°	131.5	234.6	363.8	444.2	464.6
122.5°	143.9	243.6	370.6	453.3	476.0
125°	155.3	251.6	375.1	456.7	479.4
127.5°	166.6	258.4	376.2	457.8	481.6
130°	179.0	265.2	378.5	456.7	480.5
132.5°	191.5	272.0	377.4	453.3	474.8
135°	200.6	276.5	375.1	448.8	468.0
137.5°	209.6	279.9	372.8	442.0	460.1
140°	217.6	282.2	369.4	434.0	451.0
142.5°	226.6	283.3	367.2	426.1	440.8
145°	234.6	283.3	363.8	417.0	430.6
147.5°	242.5	282.2	359.2	408.0	419.3
150°	248.2	279.9	354.7	398.9	408.0
152.5°	252.7	277.6	349.0	388.7	397.8
155°	258.4	276.5	342.2	379.6	386.4
157.5°	262.9	276.5	334.3	369.4	376.2
160°	267.4	276.5	325.2	359.2	364.9
162.5°	273.1	276.5	312.8	344.5	350.2
165°	278.8	277.6	303.7	329.8	334.3
167.5°	282.2	277.6	294.6	311.6	316.2
170°	284.4	279.9	286.7	299.2	300.3
172.5°	285.6	282.2	281.0	286.7	286.7
175°	285.6	282.2	281.0	281.0	278.8
177.5°	285.6	283.3	283.3	282.2	278.8
180°	283.3	283.3	283.3	283.3	283.3

(END OF REPORT)