

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: P274979

Luminaire Tested: **J3-CL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274979
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279.5 lumens
Efficiency: N/A
Efficacy: 138.1 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

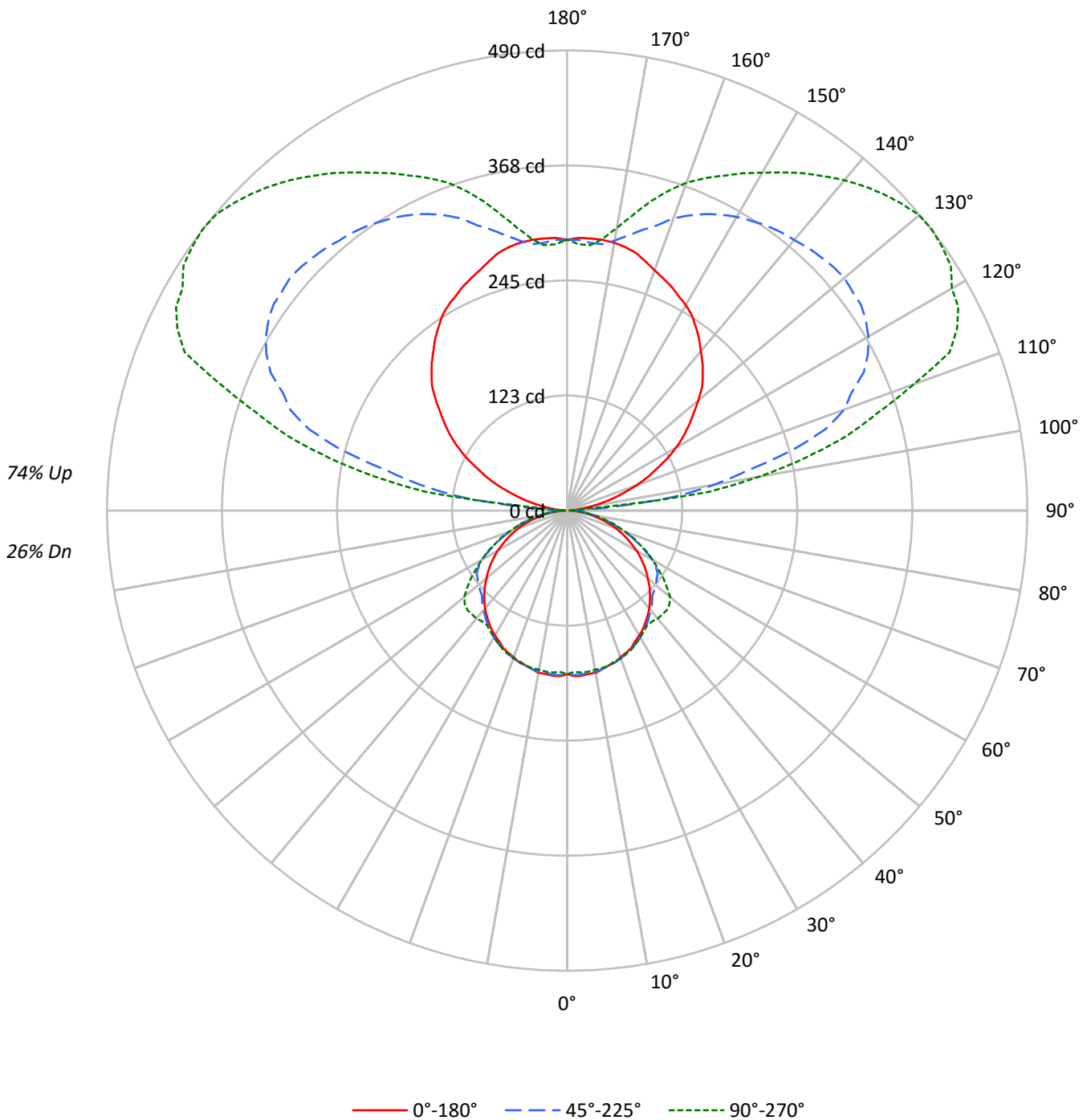
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	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°	1406	1406	1406
5°	1430	1421	1402
10°	1438	1428	1409
15°	1427	1427	1427
20°	1427	1437	1437
25°	1439	1449	1449
30°	1430	1451	1451
35°	1433	1456	1466
40°	1434	1459	1581
45°	1423	1463	1713
50°	1405	1550	1797
55°	1396	1657	1754
60°	1379	1695	1695
65°	1345	1608	1631
70°	1308	1525	1553
75°	1223	1438	1475
80°	1125	1395	1339
85°	1065	1501	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	0.7
10°-20°	48.2	2.1
20°-30°	74.5	3.3
30°-40°	92.4	4.1
40°-50°	103.4	4.5
50°-60°	101.1	4.4
60°-70°	79.7	3.5
70°-80°	48.2	2.1
80°-90°	17.2	0.8
90°-100°	59.2	2.6
100°-110°	229.0	10.0
110°-120°	314.7	13.8
120°-130°	318.3	14.0
130°-140°	282.1	12.4
140°-150°	223.1	9.8
150°-160°	155.8	6.8
160°-170°	88.2	3.9
170°-180°	27.6	1.2
0°-30°	139.3	6.1
0°-40°	231.8	10.2
0°-60°	436.2	19.1
0°-90°	581.4	25.5
90°-120°	602.8	26.4
90°-150°	1426.5	62.6
90°-180°	1698.0	74.5
0°-180°	2279.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	174	174	174	174	174	
5°	176	174	175	174	173	17
15°	171	170	171	171	171	48
25°	162	159	163	163	163	74
35°	145	145	148	149	149	91
45°	125	126	128	144	150	96
55°	99	100	118	125	125	89
65°	70	74	84	85	85	69
75°	39	46	46	47	47	42
85°	12	18	16	15	14	12
90°	2	7	6	1	1	2
95°	9	46	55	12	12	11
105°	51	164	248	286	309	54
115°	105	222	348	432	458	105
125°	158	256	382	465	488	141
135°	204	282	382	457	476	157
145°	239	288	370	424	438	149
155°	263	282	348	386	393	121
165°	284	283	309	336	340	80
175°	291	287	286	286	284	28
180°	288	288	288	288	288	



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CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	174.2	174.2	174.2	174.2	174.2
2.5°	176.5	174.2	175.4	174.2	171.9
5°	176.5	174.2	175.4	174.2	173.0
7.5°	175.4	174.2	174.2	173.0	173.0
10°	175.4	173.0	174.2	173.0	171.9
12.5°	173.0	171.9	173.0	171.9	171.9
15°	170.7	169.6	170.7	170.7	170.7
17.5°	169.6	167.3	169.6	169.6	168.4
20°	166.1	165.0	167.3	167.3	167.3
22.5°	163.8	162.7	165.0	165.0	165.0
25°	161.5	159.2	162.7	162.7	162.7
27.5°	156.9	156.9	159.2	160.4	159.2
30°	153.4	152.3	155.7	156.9	155.7
32.5°	150.0	148.8	152.3	153.4	152.3
35°	145.4	145.4	147.7	148.8	148.8
37.5°	140.7	140.7	143.1	144.2	148.8
40°	136.1	136.1	138.4	145.4	150.0
42.5°	130.4	130.4	133.8	144.2	150.0
45°	124.6	125.7	128.1	144.2	150.0
47.5°	118.8	120.0	125.7	143.1	147.7
50°	111.9	114.2	123.4	139.6	143.1
52.5°	106.1	107.3	120.0	133.8	133.8
55°	99.2	100.4	117.7	124.6	124.6
57.5°	92.3	93.4	111.9	114.2	114.2
60°	85.4	86.5	105.0	105.0	105.0
62.5°	77.3	79.6	94.6	95.8	95.8
65°	70.4	73.8	84.2	85.4	85.4
67.5°	62.3	68.1	75.0	76.1	76.1
70°	55.4	62.3	64.6	65.8	65.8
72.5°	47.3	54.2	55.4	56.5	56.5
75°	39.2	46.1	46.1	47.3	47.3
77.5°	31.1	36.9	38.1	38.1	38.1
80°	24.2	27.7	30.0	28.8	28.8
82.5°	17.3	21.9	21.9	21.9	20.8
85°	11.5	18.5	16.2	15.0	13.8
87.5°	6.9	16.2	9.2	8.1	8.1
90°	2.3	6.9	5.8	1.2	1.2
92.5°	4.6	11.5	5.8	4.6	3.5
95°	9.2	46.1	55.4	11.5	11.5
97.5°	17.3	77.3	118.8	140.7	151.1
100°	26.5	115.4	159.2	195.0	207.7
102.5°	38.1	139.6	196.1	241.1	259.6
105°	50.8	163.8	248.0	286.1	309.2
107.5°	63.5	182.3	288.4	331.1	347.3
110°	78.4	197.3	313.8	387.6	392.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	208.8	327.6	415.3	440.7
115°	105.0	221.5	348.4	431.5	458.0
117.5°	120.0	230.7	361.1	440.7	469.5
120°	133.8	238.8	370.3	452.2	473.0
122.5°	146.5	248.0	377.2	461.5	484.5
125°	158.1	256.1	381.9	464.9	488.0
127.5°	169.6	263.0	383.0	466.1	490.3
130°	182.3	270.0	385.3	464.9	489.2
132.5°	195.0	276.9	384.2	461.5	483.4
135°	204.2	281.5	381.9	456.8	476.5
137.5°	213.4	285.0	379.6	449.9	468.4
140°	221.5	287.3	376.1	441.9	459.2
142.5°	230.7	288.4	373.8	433.8	448.8
145°	238.8	288.4	370.3	424.5	438.4
147.5°	246.9	287.3	365.7	415.3	426.9
150°	252.7	285.0	361.1	406.1	415.3
152.5°	257.3	282.6	355.3	395.7	404.9
155°	263.0	281.5	348.4	386.5	393.4
157.5°	267.6	281.5	340.3	376.1	383.0
160°	272.3	281.5	331.1	365.7	371.5
162.5°	278.0	281.5	318.4	350.7	356.5
165°	283.8	282.6	309.2	335.7	340.3
167.5°	287.3	282.6	300.0	317.3	321.9
170°	289.6	285.0	291.9	304.6	305.7
172.5°	290.7	287.3	286.1	291.9	291.9
175°	290.7	287.3	286.1	286.1	283.8
177.5°	290.7	288.4	288.4	287.3	283.8
180°	288.4	288.4	288.4	288.4	288.4

(END OF REPORT)