

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: P275119

Luminaire Tested: **J3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4408.6 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

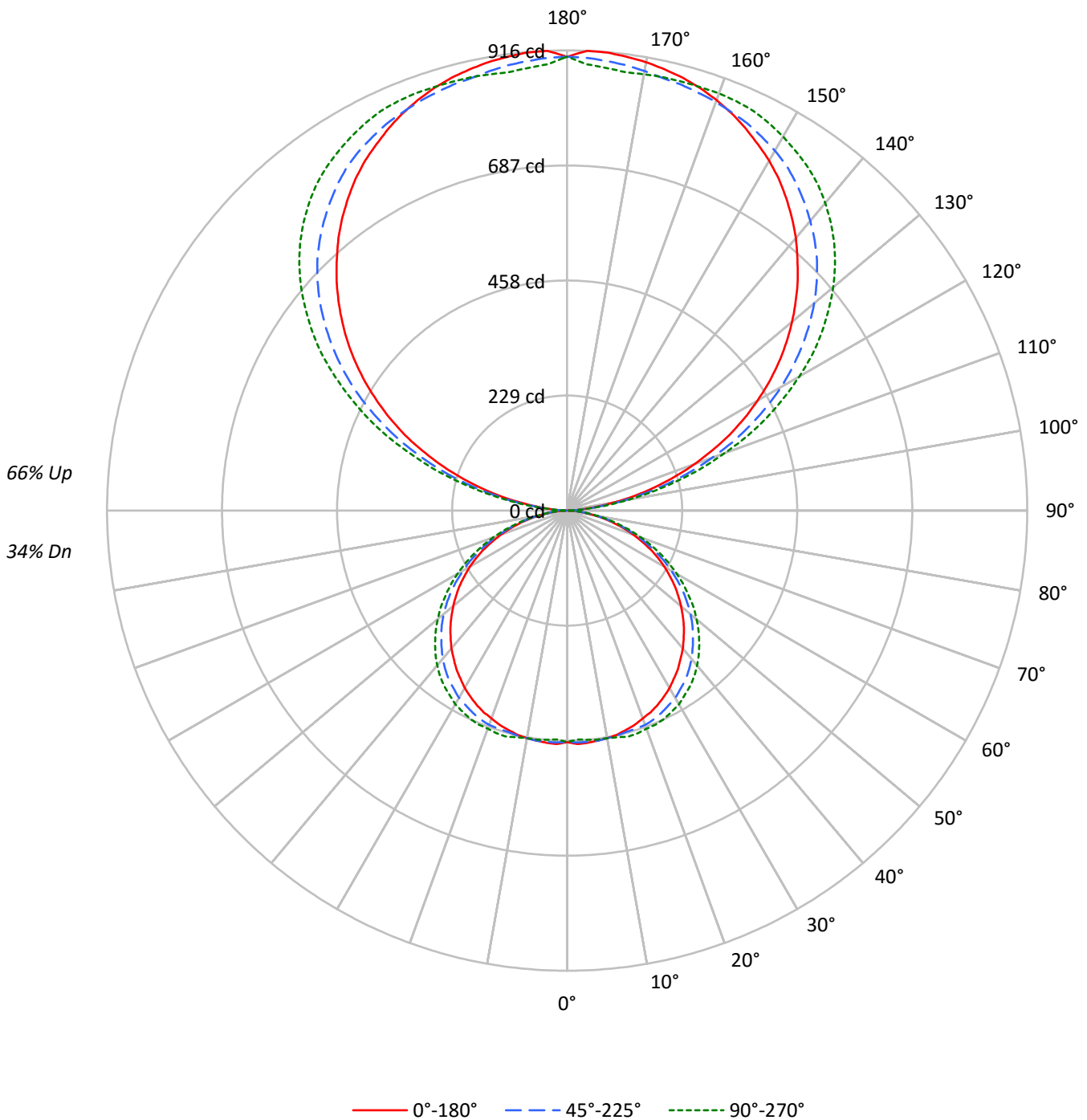
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3722	3722	3722
5°	3760	3744	3712
10°	3770	3770	3770
15°	3778	3811	3896
20°	3782	3901	3969
25°	3799	3957	4072
30°	3801	4011	4151
35°	3792	4046	4203
40°	3775	4055	4242
45°	3750	4044	4246
50°	3715	4027	4225
55°	3675	3969	4163
60°	3607	3867	4074
65°	3496	3721	3931
70°	3293	3505	3687
75°	3022	3210	3366
80°	2627	2803	2906
85°	2103	2186	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	129.3	2.9
20°-30°	203.7	4.6
30°-40°	254.5	5.8
40°-50°	271.3	6.2
50°-60°	250.2	5.7
60°-70°	192.1	4.4
70°-80°	108.9	2.5
80°-90°	28.7	0.7
90°-100°	46.2	1.0
100°-110°	217.5	4.9
110°-120°	394.2	8.9
120°-130°	506.4	11.5
130°-140°	538.7	12.2
140°-150°	495.7	11.2
150°-160°	392.5	8.9
160°-170°	249.2	5.7
170°-180°	85.5	1.9
0°-30°	377.0	8.6
0°-40°	631.6	14.3
0°-60°	1153.0	26.2
0°-90°	1482.7	33.6
90°-120°	657.9	14.9
90°-150°	2198.7	49.9
90°-180°	2926.0	66.4
0°-180°	4408.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	464	460	462	461	458	44
15°	452	450	456	464	466	128
25°	426	427	444	453	457	197
35°	385	392	410	420	426	240
45°	328	337	354	365	372	253
55°	261	269	282	291	296	233
65°	183	187	195	202	206	180
75°	97	99	103	107	108	103
85°	23	24	24	25	25	26
90°	1	1	1	0	0	3
95°	31	32	35	37	38	40
105°	182	190	208	221	227	193
115°	356	371	402	427	439	351
125°	514	530	571	602	619	459
135°	649	659	703	734	752	500
145°	760	757	795	820	835	475
155°	840	828	850	868	878	387
165°	892	878	878	880	884	252
175°	915	904	898	892	884	87
180°	903	903	903	903	903	



TEST NUMBER: P275119

CATALOG NUMBER: J3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	465.0	461.0	462.0	462.0	456.0
5°	464.0	459.9	462.0	461.0	458.0
7.5°	462.0	459.0	462.0	462.0	459.9
10°	459.9	457.1	459.9	461.0	459.9
12.5°	457.1	454.1	459.0	461.0	462.0
15°	452.0	450.1	456.0	464.0	466.1
17.5°	447.2	446.2	455.2	464.0	465.0
20°	440.2	440.2	454.1	461.0	462.0
22.5°	434.4	434.4	450.1	457.1	461.0
25°	426.5	427.4	444.2	453.2	457.1
27.5°	417.5	420.5	437.2	447.2	451.1
30°	407.7	412.6	430.3	440.2	445.3
32.5°	395.9	402.5	420.5	430.3	435.3
35°	384.8	391.8	410.5	420.5	426.5
37.5°	371.1	379.9	398.7	408.5	415.6
40°	358.2	367.2	384.8	395.9	402.5
42.5°	343.3	353.1	370.0	380.9	387.8
45°	328.5	337.3	354.2	365.1	371.9
47.5°	312.6	321.6	338.5	348.4	355.0
50°	295.8	305.6	320.6	330.4	336.4
52.5°	278.9	287.8	301.7	311.8	317.6
55°	261.1	269.0	282.0	291.0	295.8
57.5°	242.3	250.2	261.1	270.1	275.0
60°	223.4	229.4	239.5	248.3	252.3
62.5°	203.7	208.8	217.6	224.7	229.4
65°	183.0	187.0	194.8	201.8	205.8
67.5°	161.3	165.2	172.1	178.1	181.0
70°	139.5	143.4	148.5	153.2	156.2
72.5°	118.6	120.7	125.6	129.7	131.6
75°	96.9	98.9	102.9	106.8	107.9
77.5°	77.2	78.1	81.3	83.2	84.1
80°	56.5	58.4	60.3	61.2	62.5
82.5°	38.5	39.6	40.5	41.5	42.4
85°	22.7	23.6	23.6	24.8	24.8
87.5°	9.9	10.9	10.9	10.9	10.9
90°	1.1	1.1	1.1	0.0	0.0
92.5°	9.9	9.9	10.9	11.8	12.8
95°	30.6	31.7	34.7	36.6	38.5
97.5°	61.2	63.3	69.1	74.2	76.2
100°	98.9	102.9	111.9	118.6	121.8
102.5°	139.5	145.3	158.3	168.2	173.1
105°	182.1	190.0	207.8	220.6	226.6
107.5°	225.6	235.6	258.3	273.1	281.0
110°	269.0	282.0	306.7	326.4	332.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	312.6	326.4	356.1	377.9	388.8
115°	356.1	371.1	402.5	427.4	439.3
117.5°	397.8	413.5	448.1	475.9	486.6
120°	437.2	454.1	491.8	520.4	533.3
122.5°	476.8	492.8	532.2	562.8	578.8
125°	514.4	530.3	570.9	602.4	619.3
127.5°	550.2	564.8	607.5	640.1	655.9
130°	584.6	598.5	642.0	673.8	691.6
132.5°	617.4	630.2	673.8	704.5	723.3
135°	649.0	658.9	703.4	734.0	752.0
137.5°	678.6	685.6	729.3	759.9	776.8
140°	708.3	710.4	752.8	781.5	799.3
142.5°	735.1	734.0	774.7	802.3	819.2
145°	759.9	756.9	795.4	820.1	835.0
147.5°	783.5	776.8	813.2	834.1	847.9
150°	804.2	795.4	827.1	847.9	859.6
152.5°	822.0	812.1	838.9	857.7	869.5
155°	839.9	828.1	849.8	867.6	877.6
157.5°	855.8	840.8	857.7	873.5	881.6
160°	869.5	854.9	865.6	877.6	883.6
162.5°	881.6	866.7	871.6	878.5	883.6
165°	891.5	877.6	877.6	880.4	883.6
167.5°	899.2	887.4	881.6	882.5	883.6
170°	906.3	894.3	888.3	882.5	881.6
172.5°	911.2	899.2	894.3	886.4	880.4
175°	915.1	904.3	898.2	891.5	884.4
177.5°	916.1	907.1	902.2	895.4	889.4
180°	903.3	903.3	903.3	903.3	903.3

(END OF REPORT)