

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: P275124

Luminaire Tested: **J3-FL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275124
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4946.4 lumens
Efficiency: N/A
Efficacy: 136.3 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

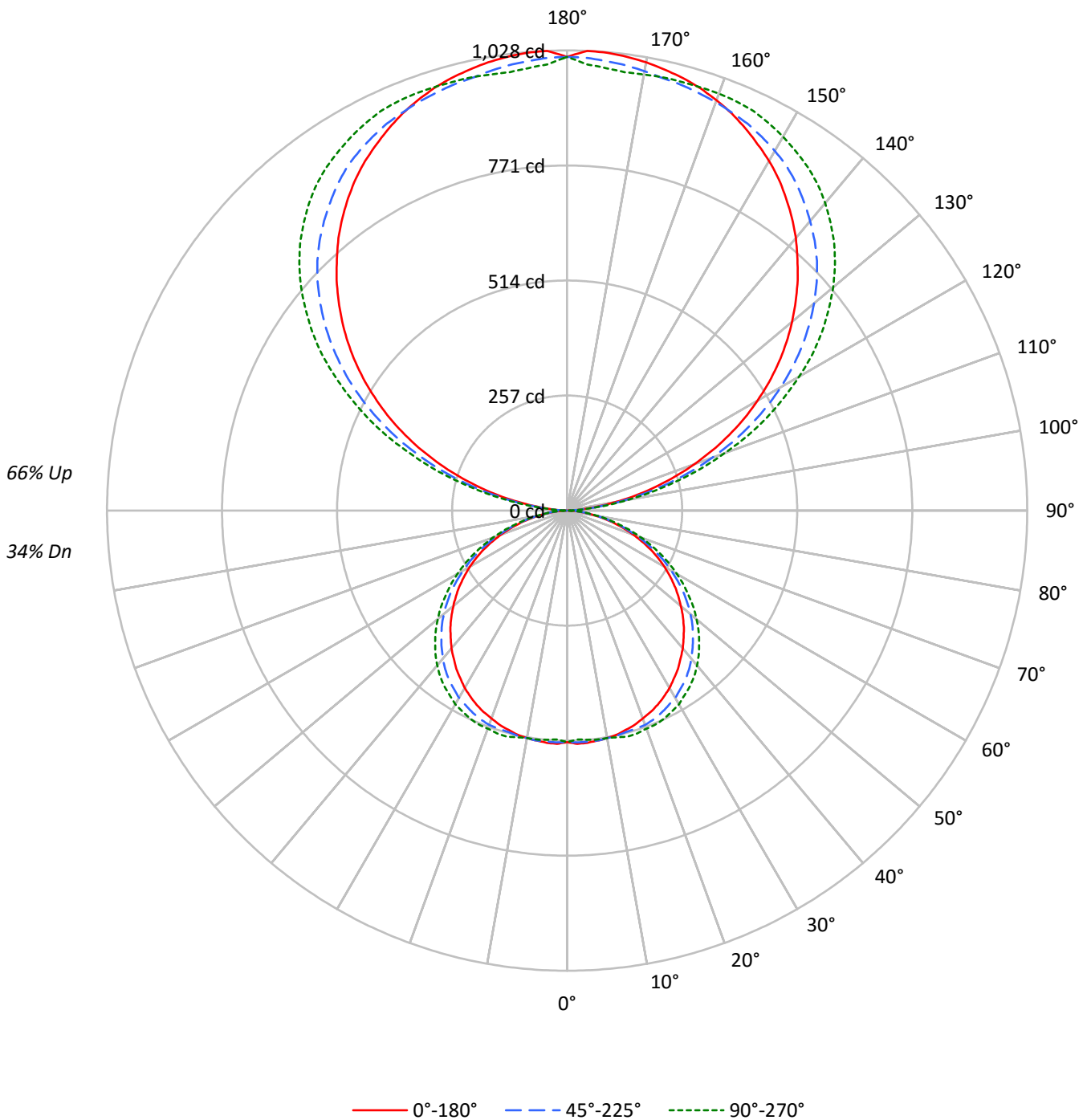
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4175	4175	4175
5°	4219	4201	4164
10°	4230	4230	4230
15°	4238	4277	4370
20°	4243	4377	4454
25°	4262	4440	4569
30°	4264	4502	4657
35°	4255	4538	4716
40°	4235	4549	4760
45°	4208	4537	4764
50°	4167	4518	4740
55°	4122	4453	4670
60°	4048	4338	4571
65°	3922	4174	4413
70°	3694	3932	4138
75°	3394	3603	3774
80°	2947	3147	3259
85°	2362	2455	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.0
10°-20°	145.1	2.9
20°-30°	228.6	4.6
30°-40°	285.6	5.8
40°-50°	304.4	6.2
50°-60°	280.7	5.7
60°-70°	215.6	4.4
70°-80°	122.1	2.5
80°-90°	32.2	0.7
90°-100°	51.9	1.0
100°-110°	244.0	4.9
110°-120°	442.3	8.9
120°-130°	568.2	11.5
130°-140°	604.4	12.2
140°-150°	556.1	11.2
150°-160°	440.4	8.9
160°-170°	279.6	5.7
170°-180°	95.9	1.9
0°-30°	423.0	8.6
0°-40°	708.6	14.3
0°-60°	1293.7	26.2
0°-90°	1663.6	33.6
90°-120°	738.2	14.9
90°-150°	2466.9	49.9
90°-180°	3283.0	66.4
0°-180°	4946.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	521	516	518	517	514	50
15°	507	505	512	521	523	143
25°	478	480	498	508	513	221
35°	432	440	460	472	478	270
45°	369	378	397	410	417	284
55°	293	302	316	326	332	261
65°	205	210	218	226	231	203
75°	109	111	116	120	121	116
85°	26	26	26	28	28	29
90°	1	1	1	0	0	3
95°	34	36	39	41	43	45
105°	204	213	233	248	254	216
115°	400	416	452	480	493	394
125°	577	595	641	676	695	515
135°	728	739	789	824	844	562
145°	853	849	892	920	937	533
155°	942	929	954	973	985	435
165°	1000	985	985	988	991	283
175°	1027	1015	1008	1000	992	98
180°	1014	1014	1014	1014	1014	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.2	517.2	517.2	517.2	517.2
2.5°	521.7	517.2	518.4	518.4	511.7
5°	520.6	516.0	518.4	517.2	513.8
7.5°	518.4	515.0	518.4	518.4	516.0
10°	516.0	512.9	516.0	517.2	516.0
12.5°	512.9	509.5	515.0	517.2	518.4
15°	507.1	505.0	511.7	520.6	522.9
17.5°	501.8	500.6	510.7	520.6	521.7
20°	493.9	493.9	509.5	517.2	518.4
22.5°	487.4	487.4	505.0	512.9	517.2
25°	478.5	479.5	498.4	508.5	512.9
27.5°	468.4	471.8	490.6	501.8	506.1
30°	457.4	462.9	482.9	493.9	499.6
32.5°	444.2	451.7	471.8	482.9	488.4
35°	431.7	439.6	460.5	471.8	478.5
37.5°	416.3	426.2	447.3	458.4	466.3
40°	401.9	412.0	431.7	444.2	451.7
42.5°	385.1	396.2	415.1	427.4	435.1
45°	368.6	378.4	397.4	409.6	417.3
47.5°	350.8	360.9	379.8	390.9	398.4
50°	331.8	342.9	359.7	370.7	377.4
52.5°	312.9	323.0	338.5	349.8	356.3
55°	292.9	301.8	316.4	326.5	331.8
57.5°	271.8	280.7	292.9	303.0	308.5
60°	250.7	257.4	268.7	278.5	283.1
62.5°	228.6	234.3	244.2	252.1	257.4
65°	205.3	209.8	218.5	226.4	231.0
67.5°	181.0	185.4	193.1	199.8	203.1
70°	156.5	160.9	166.6	171.9	175.3
72.5°	133.1	135.4	140.9	145.5	147.7
75°	108.8	110.9	115.5	119.8	121.0
77.5°	86.7	87.6	91.2	93.4	94.4
80°	63.4	65.5	67.7	68.7	70.1
82.5°	43.2	44.4	45.4	46.6	47.6
85°	25.5	26.5	26.5	27.8	27.8
87.5°	11.1	12.2	12.2	12.2	12.2
90°	1.2	1.2	1.2	0.0	0.0
92.5°	11.1	11.1	12.2	13.2	14.4
95°	34.3	35.5	38.9	41.1	43.2
97.5°	68.7	71.1	77.6	83.3	85.5
100°	110.9	115.5	125.5	133.1	136.6
102.5°	156.5	163.1	177.7	188.7	194.2
105°	204.3	213.2	233.1	247.5	254.3
107.5°	253.1	264.3	289.8	306.4	315.3
110°	301.8	316.4	344.1	366.2	372.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	350.8	366.2	399.5	424.0	436.3
115°	399.5	416.3	451.7	479.5	492.9
117.5°	446.3	463.9	502.8	534.0	546.0
120°	490.6	509.5	551.7	583.9	598.3
122.5°	535.0	552.9	597.1	631.5	649.5
125°	577.2	595.0	640.6	675.9	694.9
127.5°	617.3	633.7	681.6	718.2	735.9
130°	656.0	671.6	720.3	756.1	776.0
132.5°	692.7	707.1	756.1	790.4	811.5
135°	728.2	739.3	789.2	823.6	843.7
137.5°	761.4	769.3	818.2	852.6	871.5
140°	794.8	797.1	844.7	876.9	896.8
142.5°	824.8	823.6	869.2	900.2	919.1
145°	852.6	849.2	892.5	920.1	936.9
147.5°	879.0	871.5	912.4	935.9	951.3
150°	902.3	892.5	928.0	951.3	964.5
152.5°	922.3	911.2	941.2	962.3	975.6
155°	942.4	929.2	953.5	973.4	984.7
157.5°	960.2	943.4	962.3	980.1	989.2
160°	975.6	959.2	971.2	984.7	991.4
162.5°	989.2	972.4	977.9	985.6	991.4
165°	1000.3	984.7	984.7	987.8	991.4
167.5°	1008.9	995.7	989.2	990.2	991.4
170°	1016.8	1003.4	996.7	990.2	989.2
172.5°	1022.4	1008.9	1003.4	994.5	987.8
175°	1026.7	1014.7	1007.8	1000.3	992.4
177.5°	1027.9	1017.8	1012.3	1004.6	997.9
180°	1013.5	1013.5	1013.5	1013.5	1013.5

(END OF REPORT)