

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: P253545

Luminaire Tested: **J3-FL-50L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253545
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-50L93050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4411.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

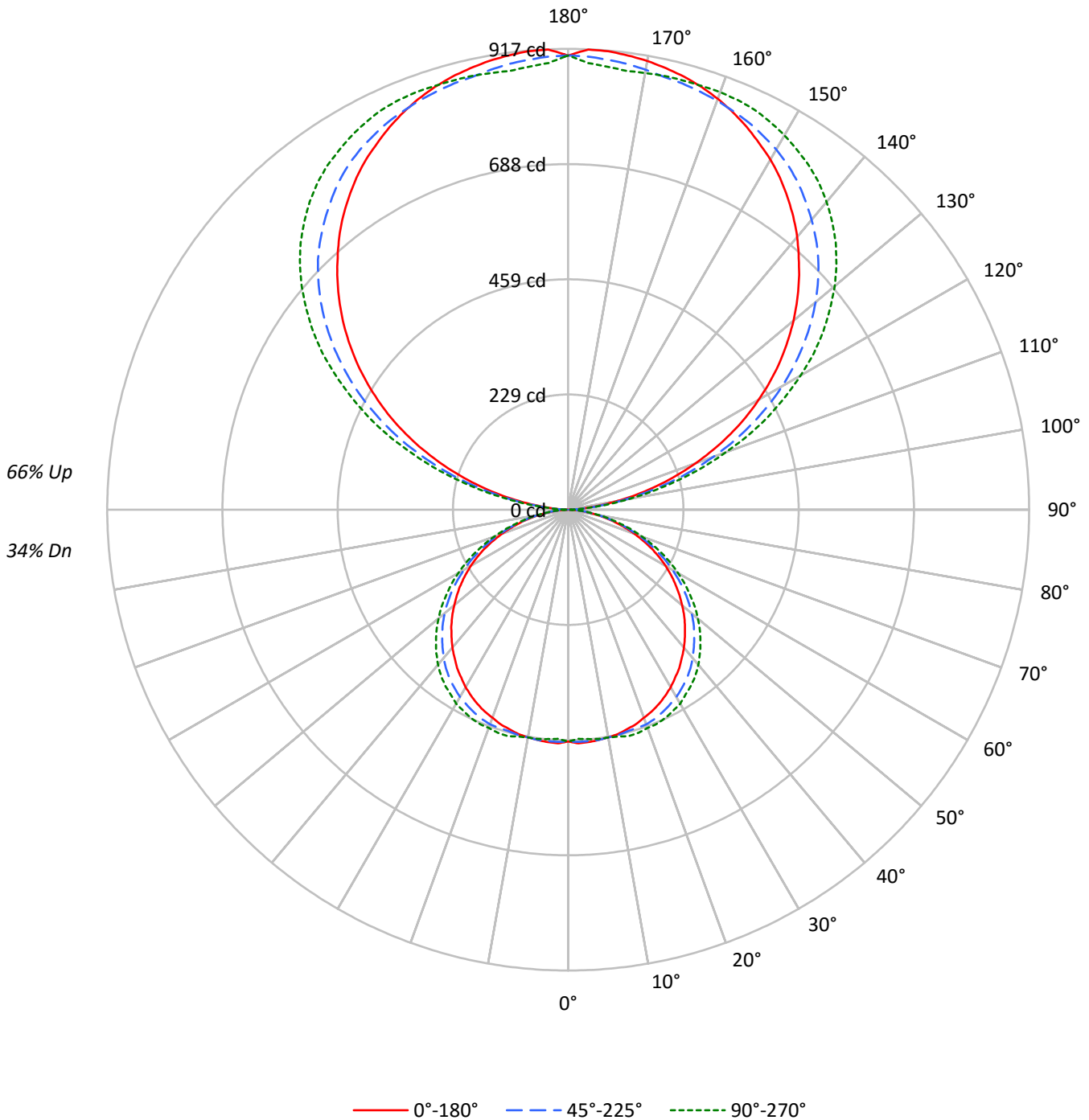
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
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	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°	3723	3723	3723
5°	3762	3746	3713
10°	3772	3772	3772
15°	3779	3814	3897
20°	3783	3904	3972
25°	3801	3959	4073
30°	3802	4014	4154
35°	3794	4048	4205
40°	3777	4057	4245
45°	3753	4046	4248
50°	3716	4028	4227
55°	3676	3972	4165
60°	3610	3869	4075
65°	3498	3723	3935
70°	3295	3508	3689
75°	3026	3213	3366
80°	2627	2808	2906
85°	2103	2186	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	129.4	2.9
20°-30°	203.8	4.6
30°-40°	254.7	5.8
40°-50°	271.5	6.2
50°-60°	250.3	5.7
60°-70°	192.3	4.4
70°-80°	108.9	2.5
80°-90°	28.7	0.7
90°-100°	46.3	1.0
100°-110°	217.6	4.9
110°-120°	394.4	8.9
120°-130°	506.7	11.5
130°-140°	539.0	12.2
140°-150°	495.9	11.2
150°-160°	392.7	8.9
160°-170°	249.3	5.7
170°-180°	85.5	1.9
0°-30°	377.2	8.6
0°-40°	631.9	14.3
0°-60°	1153.7	26.2
0°-90°	1483.6	33.6
90°-120°	658.3	14.9
90°-150°	2199.9	49.9
90°-180°	2927.0	66.4
0°-180°	4411.0	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°	427	428	444	454	457	197
35°	385	392	411	421	427	241
45°	329	338	354	365	372	253
55°	261	269	282	291	296	233
65°	183	187	195	202	206	181
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	39	40
105°	182	190	208	221	227	193
115°	356	371	403	428	440	351
125°	515	531	571	603	620	459
135°	649	659	704	734	752	501
145°	760	757	796	820	836	476
155°	840	829	850	868	878	387
165°	892	878	878	881	884	252
175°	916	905	899	892	885	87
180°	904	904	904	904	904	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.2	461.2	461.2	461.2	461.2
2.5°	465.3	461.2	462.3	462.3	456.3
5°	464.2	460.2	462.3	461.2	458.2
7.5°	462.3	459.3	462.3	462.3	460.2
10°	460.2	457.3	460.2	461.2	460.2
12.5°	457.3	454.4	459.3	461.2	462.3
15°	452.2	450.3	456.3	464.2	466.3
17.5°	447.5	446.4	455.4	464.2	465.3
20°	440.4	440.4	454.4	461.2	462.3
22.5°	434.6	434.6	450.3	457.3	461.2
25°	426.7	427.6	444.5	453.5	457.3
27.5°	417.7	420.7	437.5	447.5	451.4
30°	407.9	412.8	430.6	440.4	445.6
32.5°	396.1	402.8	420.7	430.6	435.5
35°	385.0	392.0	410.7	420.7	426.7
37.5°	371.3	380.1	398.9	408.8	415.8
40°	358.4	367.4	385.0	396.1	402.8
42.5°	343.4	353.3	370.2	381.1	388.0
45°	328.7	337.5	354.4	365.3	372.1
47.5°	312.8	321.8	338.7	348.6	355.2
50°	295.9	305.8	320.7	330.6	336.6
52.5°	279.0	288.0	301.9	311.9	317.7
55°	261.2	269.2	282.2	291.2	295.9
57.5°	242.4	250.3	261.2	270.2	275.1
60°	223.6	229.6	239.6	248.4	252.4
62.5°	203.9	209.0	217.8	224.8	229.6
65°	183.1	187.1	194.9	201.9	206.0
67.5°	161.4	165.3	172.2	178.2	181.1
70°	139.6	143.5	148.6	153.3	156.3
72.5°	118.6	120.8	125.7	129.7	131.7
75°	97.0	98.9	103.0	106.9	107.9
77.5°	77.3	78.2	81.3	83.3	84.1
80°	56.5	58.4	60.4	61.3	62.5
82.5°	38.6	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	12.9
95°	30.6	31.7	34.7	36.6	38.6
97.5°	61.3	63.4	69.2	74.3	76.2
100°	98.9	103.0	112.0	118.6	121.8
102.5°	139.6	145.4	158.4	168.3	173.2
105°	182.2	190.1	207.9	220.8	226.7
107.5°	225.7	235.7	258.4	273.2	281.1
110°	269.2	282.2	306.8	326.5	332.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	312.8	326.5	356.3	378.1	389.0
115°	356.3	371.3	402.8	427.6	439.6
117.5°	398.0	413.7	448.4	476.2	486.9
120°	437.5	454.4	492.0	520.7	533.6
122.5°	477.1	493.1	532.5	563.1	579.2
125°	514.7	530.6	571.2	602.8	619.7
127.5°	550.5	565.1	607.9	640.4	656.3
130°	585.0	598.9	642.4	674.2	692.0
132.5°	617.7	630.6	674.2	704.9	723.7
135°	649.4	659.3	703.8	734.4	752.4
137.5°	679.0	686.0	729.7	760.3	777.2
140°	708.7	710.8	753.3	782.0	799.7
142.5°	735.5	734.4	775.1	802.7	819.6
145°	760.3	757.3	795.9	820.5	835.5
147.5°	783.9	777.2	813.6	834.6	848.3
150°	804.7	795.9	827.6	848.3	860.1
152.5°	822.4	812.6	839.3	858.2	870.0
155°	840.4	828.6	850.3	868.0	878.1
157.5°	856.2	841.3	858.2	874.0	882.1
160°	870.0	855.4	866.1	878.1	884.1
162.5°	882.1	867.2	872.1	879.0	884.1
165°	892.0	878.1	878.1	880.9	884.1
167.5°	899.7	887.9	882.1	883.0	884.1
170°	906.8	894.8	888.8	883.0	882.1
172.5°	911.7	899.7	894.8	886.9	880.9
175°	915.6	904.8	898.7	892.0	884.9
177.5°	916.6	907.6	902.7	895.9	889.9
180°	903.8	903.8	903.8	903.8	903.8

(END OF REPORT)