

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: P253557

Luminaire Tested: **J3-FL-50L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253557
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4484.5 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

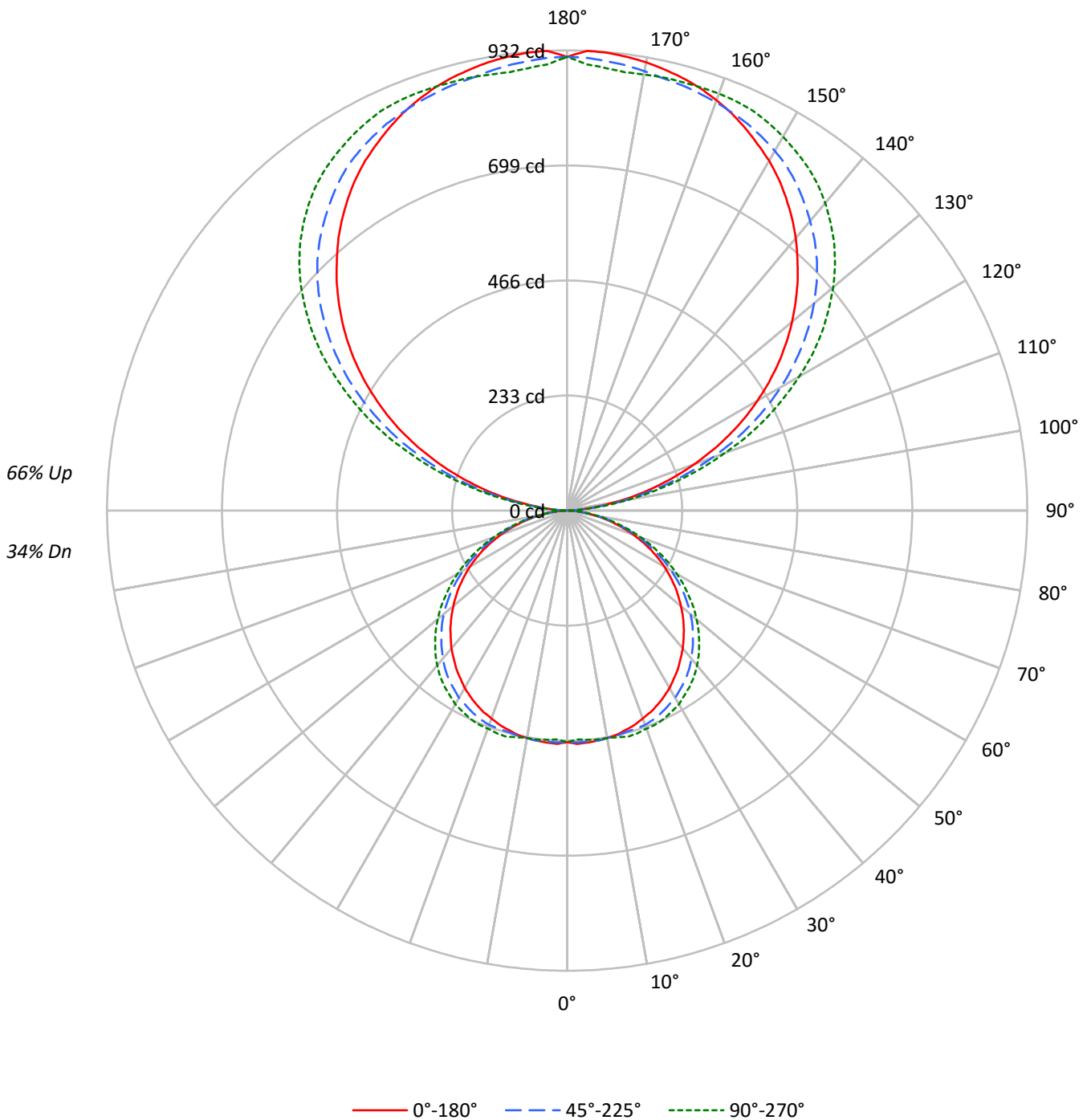
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3785	3785	3785
5°	3824	3809	3776
10°	3835	3835	3835
15°	3843	3877	3962
20°	3847	3968	4038
25°	3864	4025	4142
30°	3866	4081	4223
35°	3857	4115	4275
40°	3840	4125	4316
45°	3814	4113	4319
50°	3779	4096	4298
55°	3738	4038	4235
60°	3670	3933	4143
65°	3555	3784	4000
70°	3349	3567	3751
75°	3075	3266	3422
80°	2669	2855	2952
85°	2140	2223	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.0
10°-20°	131.6	2.9
20°-30°	207.2	4.6
30°-40°	258.9	5.8
40°-50°	276.0	6.2
50°-60°	254.5	5.7
60°-70°	195.4	4.4
70°-80°	110.7	2.5
80°-90°	29.2	0.7
90°-100°	47.0	1.0
100°-110°	221.2	4.9
110°-120°	401.0	8.9
120°-130°	515.1	11.5
130°-140°	548.0	12.2
140°-150°	504.2	11.2
150°-160°	399.3	8.9
160°-170°	253.5	5.7
170°-180°	86.9	1.9
0°-30°	383.5	8.6
0°-40°	642.4	14.3
0°-60°	1172.9	26.2
0°-90°	1508.3	33.6
90°-120°	669.3	14.9
90°-150°	2236.5	49.9
90°-180°	2976.0	66.4
0°-180°	4484.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	472	468	470	469	466	45
15°	460	458	464	472	474	130
25°	434	435	452	461	465	200
35°	391	399	418	428	434	245
45°	334	343	360	371	378	258
55°	266	274	287	296	301	237
65°	186	190	198	205	209	184
75°	99	101	105	109	110	105
85°	23	24	24	25	25	26
90°	1	1	1	0	0	3
95°	31	32	35	37	39	40
105°	185	193	211	224	230	196
115°	362	378	410	435	447	357
125°	523	539	581	613	630	467
135°	660	670	716	747	765	509
145°	773	770	809	834	849	484
155°	854	842	864	882	893	394
165°	907	893	893	896	899	256
175°	931	920	914	907	900	89
180°	919	919	919	919	919	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	468.9	468.9	468.9	468.9	468.9
2.5°	473.0	468.9	470.0	470.0	463.9
5°	471.9	467.8	470.0	468.9	465.9
7.5°	470.0	466.9	470.0	470.0	467.8
10°	467.8	465.0	467.8	468.9	467.8
12.5°	465.0	461.9	466.9	468.9	470.0
15°	459.8	457.8	463.9	471.9	474.1
17.5°	454.9	453.9	463.0	471.9	473.0
20°	447.8	447.8	461.9	468.9	470.0
22.5°	441.9	441.9	457.8	465.0	468.9
25°	433.8	434.7	451.9	461.0	465.0
27.5°	424.7	427.7	444.7	454.9	458.9
30°	414.7	419.7	437.8	447.8	453.0
32.5°	402.7	409.5	427.7	437.8	442.8
35°	391.4	398.6	417.5	427.7	433.8
37.5°	377.5	386.4	405.5	415.6	422.7
40°	364.4	373.5	391.4	402.7	409.5
42.5°	349.2	359.2	376.4	387.5	394.5
45°	334.1	343.1	360.3	371.4	378.3
47.5°	318.0	327.2	344.3	354.4	361.2
50°	300.9	310.9	326.1	336.1	342.2
52.5°	283.7	292.8	306.9	317.1	323.0
55°	265.6	273.6	286.9	296.0	300.9
57.5°	246.4	254.5	265.6	274.7	279.7
60°	227.3	233.4	243.6	252.5	256.6
62.5°	207.2	212.4	221.4	228.5	233.4
65°	186.1	190.2	198.1	205.3	209.4
67.5°	164.1	168.1	175.0	181.1	184.2
70°	141.9	145.9	151.1	155.9	158.9
72.5°	120.6	122.8	127.8	131.9	133.9
75°	98.6	100.6	104.7	108.6	109.7
77.5°	78.6	79.5	82.7	84.7	85.5
80°	57.4	59.4	61.4	62.3	63.5
82.5°	39.2	40.3	41.2	42.2	43.1
85°	23.1	24.0	24.0	25.2	25.2
87.5°	10.0	11.1	11.1	11.1	11.1
90°	1.1	1.1	1.1	0.0	0.0
92.5°	10.0	10.0	11.1	12.0	13.1
95°	31.1	32.2	35.3	37.2	39.2
97.5°	62.3	64.4	70.3	75.5	77.5
100°	100.6	104.7	113.8	120.6	123.8
102.5°	141.9	147.8	161.1	171.1	176.1
105°	185.2	193.3	211.4	224.4	230.5
107.5°	229.4	239.6	262.7	277.8	285.8
110°	273.6	286.9	311.9	332.0	338.1



TEST NUMBER: P253557

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.0	332.0	362.2	384.4	395.5
115°	362.2	377.5	409.5	434.7	446.9
117.5°	404.7	420.6	455.8	484.1	495.0
120°	444.7	461.9	500.2	529.4	542.5
122.5°	485.0	501.3	541.4	572.5	588.8
125°	523.3	539.4	580.8	612.8	630.0
127.5°	559.6	574.5	618.0	651.1	667.2
130°	594.7	608.9	653.1	685.5	703.5
132.5°	628.0	641.1	685.5	716.6	735.8
135°	660.2	670.2	715.5	746.7	764.9
137.5°	690.3	697.5	741.8	773.0	790.2
140°	720.5	722.7	765.8	795.0	813.1
142.5°	747.7	746.7	788.0	816.1	833.3
145°	773.0	769.9	809.1	834.2	849.4
147.5°	797.0	790.2	827.2	848.5	862.5
150°	818.1	809.1	841.3	862.5	874.5
152.5°	836.2	826.1	853.3	872.5	884.5
155°	854.4	842.4	864.4	882.5	892.7
157.5°	870.5	855.3	872.5	888.6	896.8
160°	884.5	869.6	880.5	892.7	898.8
162.5°	896.8	881.6	886.6	893.6	898.8
165°	906.8	892.7	892.7	895.6	898.8
167.5°	914.7	902.7	896.8	897.7	898.8
170°	921.9	909.7	903.6	897.7	896.8
172.5°	926.9	914.7	909.7	901.7	895.6
175°	930.8	919.9	913.6	906.8	899.7
177.5°	931.9	922.8	917.8	910.8	904.7
180°	918.8	918.8	918.8	918.8	918.8

(END OF REPORT)