

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: P253533

Luminaire Tested: **J3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253533
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 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3737.7 lumens
Efficiency: N/A
Efficacy: 103.0 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

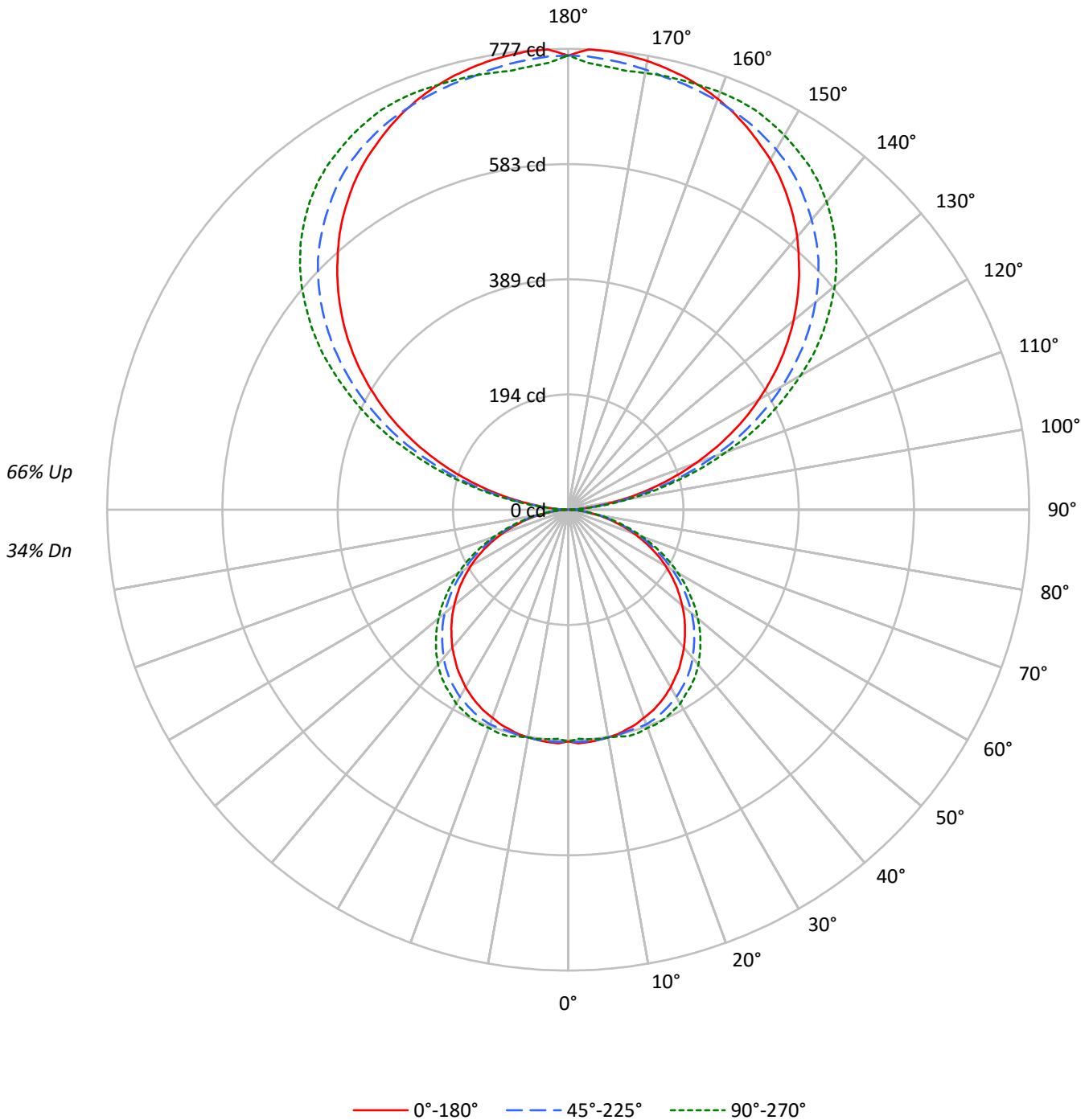
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3155	3155	3155
5°	3188	3174	3147
10°	3196	3196	3196
15°	3203	3231	3302
20°	3206	3308	3365
25°	3221	3355	3452
30°	3222	3402	3519
35°	3215	3430	3564
40°	3201	3438	3597
45°	3180	3428	3600
50°	3150	3414	3582
55°	3116	3365	3530
60°	3058	3278	3454
65°	2963	3154	3333
70°	2792	2972	3127
75°	2564	2723	2851
80°	2227	2380	2464
85°	1778	1853	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.0
10°-20°	109.7	2.9
20°-30°	172.7	4.6
30°-40°	215.8	5.8
40°-50°	230.0	6.2
50°-60°	212.1	5.7
60°-70°	162.9	4.4
70°-80°	92.3	2.5
80°-90°	24.3	0.7
90°-100°	39.2	1.0
100°-110°	184.4	4.9
110°-120°	334.2	8.9
120°-130°	429.3	11.5
130°-140°	456.7	12.2
140°-150°	420.2	11.2
150°-160°	332.8	8.9
160°-170°	211.3	5.7
170°-180°	72.5	1.9
0°-30°	319.7	8.6
0°-40°	535.4	14.3
0°-60°	977.6	26.2
0°-90°	1257.1	33.6
90°-120°	557.8	14.9
90°-150°	1864.1	49.9
90°-180°	2481.0	66.4
0°-180°	3737.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	393	390	392	391	388	37
15°	383	382	387	393	395	108
25°	362	362	377	384	388	167
35°	326	332	348	356	362	204
45°	278	286	300	310	315	215
55°	221	228	239	247	251	198
65°	155	159	165	171	174	153
75°	82	84	87	90	91	87
85°	19	20	20	21	21	22
90°	1	1	1	0	0	3
95°	26	27	29	31	33	34
105°	154	161	176	187	192	163
115°	302	315	341	362	372	298
125°	436	450	484	511	525	389
135°	550	559	596	622	638	424
145°	644	642	674	695	708	403
155°	712	702	720	736	744	328
165°	756	744	744	746	749	213
175°	776	767	762	756	750	74
180°	766	766	766	766	766	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	390.8	390.8	390.8	390.8	390.8
2.5°	394.3	390.8	391.7	391.7	386.6
5°	393.4	389.9	391.7	390.8	388.3
7.5°	391.7	389.2	391.7	391.7	389.9
10°	389.9	387.5	389.9	390.8	389.9
12.5°	387.5	385.0	389.2	390.8	391.7
15°	383.2	381.6	386.6	393.4	395.1
17.5°	379.2	378.3	385.9	393.4	394.3
20°	373.2	373.2	385.0	390.8	391.7
22.5°	368.3	368.3	381.6	387.5	390.8
25°	361.6	362.3	376.7	384.3	387.5
27.5°	354.0	356.5	370.7	379.2	382.5
30°	345.6	349.8	364.9	373.2	377.5
32.5°	335.6	341.3	356.5	364.9	369.0
35°	326.2	332.2	348.0	356.5	361.6
37.5°	314.6	322.1	338.0	346.4	352.3
40°	303.7	311.3	326.2	335.6	341.3
42.5°	291.0	299.4	313.7	323.0	328.8
45°	278.5	286.0	300.3	309.5	315.3
47.5°	265.1	272.7	287.0	295.4	301.0
50°	250.8	259.1	271.8	280.1	285.2
52.5°	236.4	244.0	255.8	264.3	269.3
55°	221.4	228.1	239.1	246.7	250.8
57.5°	205.4	212.1	221.4	229.0	233.2
60°	189.4	194.5	203.0	210.5	213.9
62.5°	172.7	177.1	184.5	190.5	194.5
65°	155.1	158.6	165.1	171.1	174.5
67.5°	136.8	140.1	145.9	151.0	153.5
70°	118.3	121.6	125.9	129.9	132.5
72.5°	100.5	102.3	106.5	109.9	111.6
75°	82.2	83.8	87.3	90.5	91.4
77.5°	65.5	66.2	68.9	70.6	71.3
80°	47.9	49.5	51.2	51.9	53.0
82.5°	32.7	33.6	34.3	35.2	35.9
85°	19.2	20.0	20.0	21.0	21.0
87.5°	8.4	9.2	9.2	9.2	9.2
90°	0.9	0.9	0.9	0.0	0.0
92.5°	8.4	8.4	9.2	10.0	10.9
95°	26.0	26.9	29.4	31.0	32.7
97.5°	51.9	53.7	58.6	62.9	64.6
100°	83.8	87.3	94.9	100.5	103.2
102.5°	118.3	123.2	134.3	142.6	146.8
105°	154.4	161.1	176.2	187.1	192.1
107.5°	191.2	199.7	219.0	231.5	238.2
110°	228.1	239.1	260.0	276.7	281.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	265.1	276.7	301.9	320.4	329.7
115°	301.9	314.6	341.3	362.3	372.5
117.5°	337.3	350.5	379.9	403.5	412.6
120°	370.7	385.0	416.9	441.2	452.1
122.5°	404.2	417.8	451.2	477.2	490.8
125°	436.2	449.6	484.1	510.8	525.1
127.5°	466.5	478.8	515.1	542.7	556.1
130°	495.7	507.5	544.3	571.3	586.4
132.5°	523.4	534.3	571.3	597.3	613.2
135°	550.3	558.6	596.4	622.3	637.5
137.5°	575.3	581.3	618.3	644.3	658.6
140°	600.6	602.3	638.3	662.6	677.7
142.5°	623.2	622.3	656.8	680.2	694.5
145°	644.3	641.7	674.4	695.3	708.0
147.5°	664.3	658.6	689.5	707.2	718.8
150°	681.9	674.4	701.2	718.8	728.8
152.5°	696.9	688.6	711.2	727.2	737.2
155°	712.1	702.1	720.5	735.6	744.1
157.5°	725.6	712.9	727.2	740.6	747.5
160°	737.2	724.8	733.9	744.1	749.1
162.5°	747.5	734.8	739.0	744.8	749.1
165°	755.8	744.1	744.1	746.4	749.1
167.5°	762.4	752.4	747.5	748.2	749.1
170°	768.4	758.2	753.2	748.2	747.5
172.5°	772.5	762.4	758.2	751.5	746.4
175°	775.8	766.7	761.5	755.8	749.9
177.5°	776.7	769.1	764.9	759.1	754.1
180°	765.8	765.8	765.8	765.8	765.8

(END OF REPORT)