

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: P253503

Luminaire Tested: **J3-FL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253503
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-50L83050-1D-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, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4540.6 lumens
Efficiency: N/A
Efficacy: 128.3 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

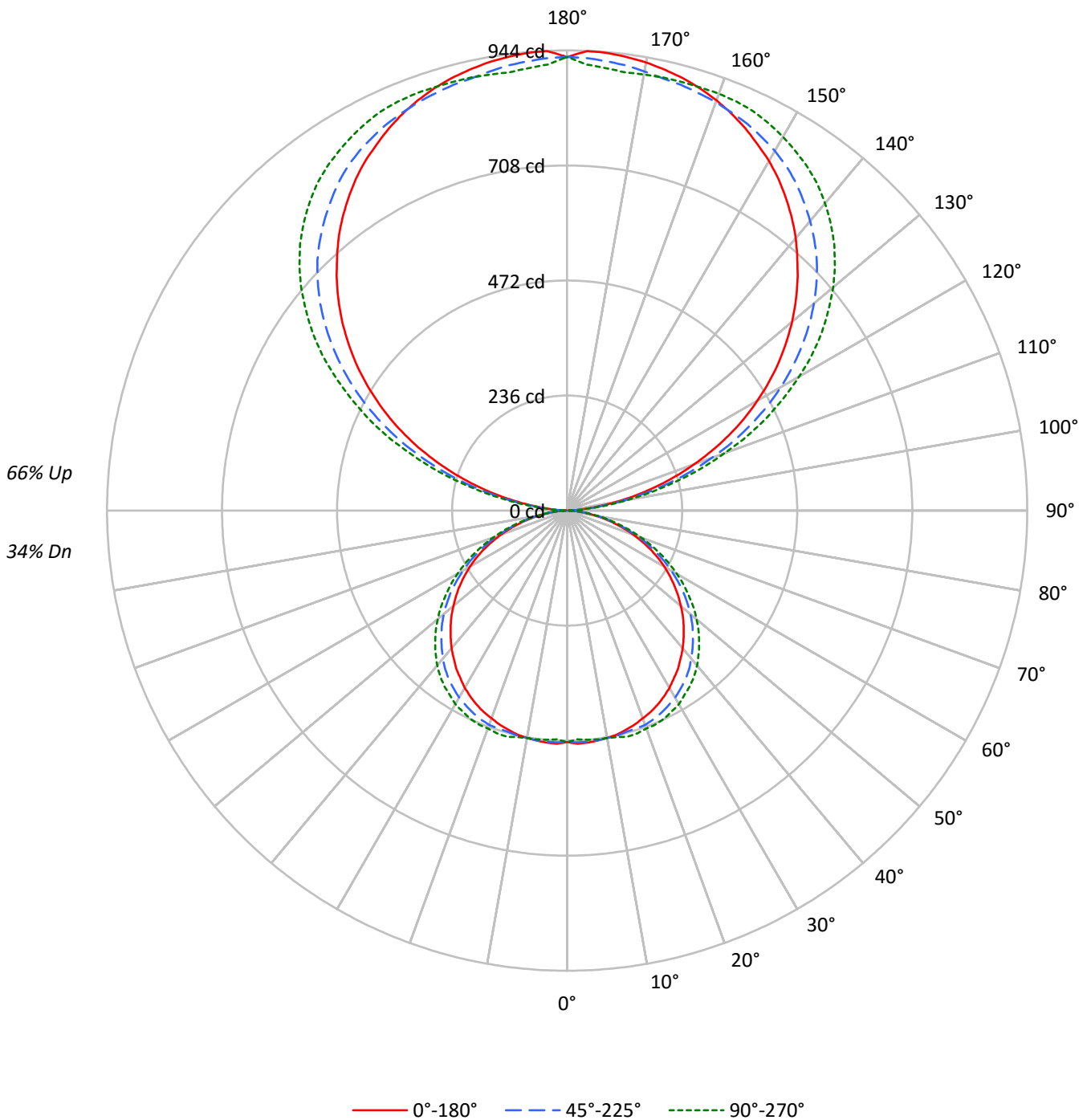
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3833	3833	3833
5°	3873	3857	3823
10°	3883	3883	3883
15°	3891	3926	4012
20°	3895	4018	4088
25°	3913	4076	4194
30°	3914	4131	4275
35°	3906	4167	4329
40°	3888	4176	4369
45°	3862	4165	4374
50°	3826	4147	4352
55°	3785	4089	4287
60°	3715	3982	4196
65°	3601	3832	4050
70°	3392	3609	3798
75°	3113	3306	3465
80°	2706	2892	2989
85°	2167	2251	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.0
10°-20°	133.2	2.9
20°-30°	209.8	4.6
30°-40°	262.1	5.8
40°-50°	279.4	6.2
50°-60°	257.7	5.7
60°-70°	197.9	4.4
70°-80°	112.1	2.5
80°-90°	29.6	0.7
90°-100°	47.6	1.0
100°-110°	224.0	4.9
110°-120°	406.0	8.9
120°-130°	521.5	11.5
130°-140°	554.8	12.2
140°-150°	510.5	11.2
150°-160°	404.3	8.9
160°-170°	256.6	5.7
170°-180°	88.0	1.9
0°-30°	388.3	8.6
0°-40°	650.5	14.3
0°-60°	1187.6	26.2
0°-90°	1527.2	33.6
90°-120°	677.6	14.9
90°-150°	2264.5	49.9
90°-180°	3013.0	66.4
0°-180°	4540.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	478	474	476	475	472	45
15°	466	464	470	478	480	132
25°	439	440	458	467	471	202
35°	396	404	423	433	439	248
45°	338	347	365	376	383	261
55°	269	277	290	300	305	240
65°	188	193	201	208	212	186
75°	100	102	106	110	111	106
85°	23	24	24	26	26	26
90°	1	1	1	0	0	3
95°	32	33	36	38	40	41
105°	188	196	214	227	233	198
115°	367	382	415	440	452	362
125°	530	546	588	620	638	473
135°	668	679	724	756	774	515
145°	783	780	819	845	860	490
155°	865	853	875	894	904	399
165°	918	904	904	907	910	259
175°	942	931	925	918	911	90
180°	930	930	930	930	930	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	474.8	474.8	474.8	474.8	474.8
2.5°	478.9	474.8	475.9	475.9	469.7
5°	477.9	473.7	475.9	474.8	471.7
7.5°	475.9	472.8	475.9	475.9	473.7
10°	473.7	470.8	473.7	474.8	473.7
12.5°	470.8	467.7	472.8	474.8	475.9
15°	465.5	463.5	469.7	477.9	480.0
17.5°	460.6	459.5	468.8	477.9	478.9
20°	453.4	453.4	467.7	474.8	475.9
22.5°	447.4	447.4	463.5	470.8	474.8
25°	439.3	440.2	457.6	466.8	470.8
27.5°	430.0	433.1	450.3	460.6	464.6
30°	419.9	424.9	443.2	453.4	458.6
32.5°	407.7	414.6	433.1	443.2	448.3
35°	396.3	403.6	422.8	433.1	439.3
37.5°	382.2	391.2	410.6	420.8	428.0
40°	368.9	378.2	396.3	407.7	414.6
42.5°	353.5	363.7	381.1	392.3	399.4
45°	338.3	347.4	364.8	376.0	383.1
47.5°	322.0	331.3	348.6	358.8	365.7
50°	304.6	314.8	330.2	340.3	346.5
52.5°	287.2	296.5	310.8	321.1	327.1
55°	268.9	277.1	290.5	299.7	304.6
57.5°	249.5	257.7	268.9	278.2	283.2
60°	230.1	236.3	246.6	255.7	259.9
62.5°	209.8	215.1	224.2	231.4	236.3
65°	188.5	192.6	200.6	207.8	212.0
67.5°	166.2	170.2	177.2	183.4	186.5
70°	143.7	147.7	152.9	157.8	160.9
72.5°	122.1	124.3	129.4	133.6	135.5
75°	99.8	101.8	106.0	110.0	111.1
77.5°	79.6	80.5	83.7	85.7	86.6
80°	58.2	60.2	62.2	63.1	64.3
82.5°	39.7	40.8	41.7	42.8	43.7
85°	23.4	24.3	24.3	25.6	25.6
87.5°	10.1	11.2	11.2	11.2	11.2
90°	1.1	1.1	1.1	0.0	0.0
92.5°	10.1	10.1	11.2	12.1	13.2
95°	31.5	32.6	35.7	37.7	39.7
97.5°	63.1	65.2	71.2	76.5	78.5
100°	101.8	106.0	115.2	122.1	125.4
102.5°	143.7	149.7	163.1	173.2	178.3
105°	187.6	195.7	214.0	227.2	233.4
107.5°	232.3	242.6	266.0	281.2	289.4
110°	277.1	290.5	315.8	336.1	342.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	322.0	336.1	366.8	389.2	400.5
115°	366.8	382.2	414.6	440.2	452.5
117.5°	409.7	425.8	461.5	490.2	501.2
120°	450.3	467.7	506.5	536.0	549.2
122.5°	491.1	507.6	548.2	579.7	596.2
125°	529.9	546.2	588.0	620.5	637.9
127.5°	566.6	581.7	625.7	659.2	675.6
130°	602.2	616.5	661.2	694.0	712.3
132.5°	635.9	649.1	694.0	725.6	745.0
135°	668.5	678.6	724.5	756.0	774.5
137.5°	698.9	706.2	751.1	782.6	800.0
140°	729.6	731.7	775.4	804.9	823.2
142.5°	757.1	756.0	797.9	826.3	843.7
145°	782.6	779.6	819.3	844.6	860.0
147.5°	806.9	800.0	837.6	859.1	873.3
150°	828.3	819.3	851.9	873.3	885.4
152.5°	846.6	836.5	864.0	883.4	895.5
155°	865.1	853.0	875.2	893.5	903.9
157.5°	881.4	866.0	883.4	899.7	908.0
160°	895.5	880.5	891.6	903.9	910.0
162.5°	908.0	892.6	897.7	904.8	910.0
165°	918.2	903.9	903.9	906.8	910.0
167.5°	926.2	914.0	908.0	909.0	910.0
170°	933.4	921.1	914.9	909.0	908.0
172.5°	938.5	926.2	921.1	912.9	906.8
175°	942.5	931.4	925.1	918.2	910.9
177.5°	943.6	934.3	929.2	922.2	916.0
180°	930.3	930.3	930.3	930.3	930.3

(END OF REPORT)