

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: P253515

Luminaire Tested: **J3-FL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253515
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5054.6 lumens
Efficiency: N/A
Efficacy: 139.2 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

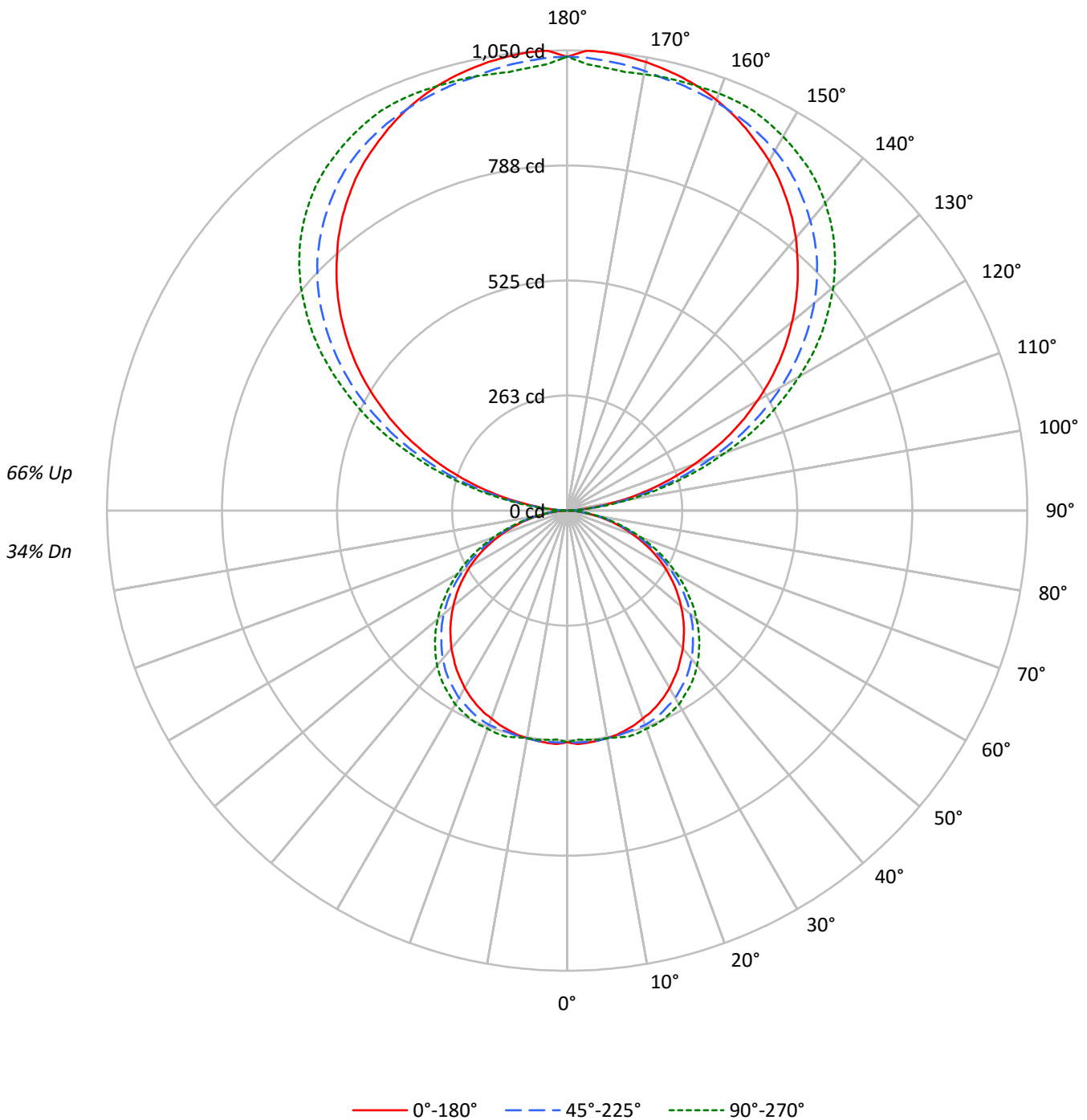
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4267	4267	4267
5°	4310	4293	4255
10°	4323	4323	4323
15°	4331	4370	4466
20°	4336	4472	4551
25°	4356	4537	4668
30°	4357	4599	4760
35°	4348	4638	4819
40°	4328	4650	4864
45°	4300	4636	4868
50°	4259	4616	4844
55°	4214	4552	4773
60°	4137	4432	4671
65°	4008	4266	4508
70°	3777	4020	4227
75°	3465	3681	3858
80°	3013	3217	3329
85°	2408	2501	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.0
10°-20°	148.3	2.9
20°-30°	233.6	4.6
30°-40°	291.8	5.8
40°-50°	311.1	6.2
50°-60°	286.8	5.7
60°-70°	220.3	4.4
70°-80°	124.8	2.5
80°-90°	32.9	0.7
90°-100°	53.0	1.0
100°-110°	249.4	4.9
110°-120°	452.0	8.9
120°-130°	580.6	11.5
130°-140°	617.6	12.2
140°-150°	568.3	11.2
150°-160°	450.0	8.9
160°-170°	285.7	5.7
170°-180°	98.0	1.9
0°-30°	432.3	8.6
0°-40°	724.1	14.3
0°-60°	1322.0	26.2
0°-90°	1700.0	33.6
90°-120°	754.4	14.9
90°-150°	2520.9	49.9
90°-180°	3355.0	66.4
0°-180°	5054.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	532	527	530	528	525	51
15°	518	516	523	532	534	146
25°	489	490	509	520	524	225
35°	441	449	471	482	489	276
45°	377	387	406	419	426	290
55°	299	308	323	334	339	267
65°	210	214	223	231	236	207
75°	111	113	118	122	124	118
85°	26	27	27	28	28	29
90°	1	1	1	0	0	3
95°	35	36	40	42	44	46
105°	209	218	238	253	260	221
115°	408	425	462	490	504	403
125°	590	608	655	691	710	526
135°	744	756	806	842	862	574
145°	871	868	912	940	957	545
155°	963	950	974	995	1006	444
165°	1022	1006	1006	1009	1013	289
175°	1049	1037	1030	1022	1014	100
180°	1036	1036	1036	1036	1036	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.5	528.5	528.5	528.5	528.5
2.5°	533.2	528.5	529.7	529.7	522.9
5°	531.9	527.3	529.7	528.5	525.1
7.5°	529.7	526.3	529.7	529.7	527.3
10°	527.3	524.1	527.3	528.5	527.3
12.5°	524.1	520.6	526.3	528.5	529.7
15°	518.2	516.0	522.9	531.9	534.4
17.5°	512.8	511.6	521.9	531.9	533.2
20°	504.7	504.7	520.6	528.5	529.7
22.5°	498.1	498.1	516.0	524.1	528.5
25°	489.0	490.0	509.3	519.6	524.1
27.5°	478.7	482.1	501.3	512.8	517.2
30°	467.4	473.0	493.4	504.7	510.6
32.5°	453.9	461.5	482.1	493.4	499.1
35°	441.2	449.2	470.6	482.1	489.0
37.5°	425.4	435.5	457.1	468.4	476.5
40°	410.7	421.0	441.2	453.9	461.5
42.5°	393.6	404.9	424.2	436.7	444.6
45°	376.6	386.7	406.1	418.6	426.4
47.5°	358.5	368.7	388.1	399.4	407.1
50°	339.1	350.4	367.5	378.8	385.7
52.5°	319.7	330.0	346.0	357.5	364.1
55°	299.4	308.4	323.4	333.6	339.1
57.5°	277.8	286.8	299.4	309.6	315.3
60°	256.2	263.0	274.5	284.6	289.3
62.5°	233.6	239.4	249.5	257.6	263.0
65°	209.8	214.4	223.3	231.4	236.0
67.5°	185.0	189.4	197.3	204.1	207.6
70°	160.0	164.4	170.3	175.7	179.1
72.5°	136.0	138.4	144.0	148.7	150.9
75°	111.1	113.4	118.0	122.4	123.7
77.5°	88.6	89.6	93.2	95.4	96.4
80°	64.8	67.0	69.2	70.2	71.6
82.5°	44.2	45.4	46.4	47.6	48.6
85°	26.0	27.0	27.0	28.4	28.4
87.5°	11.3	12.5	12.5	12.5	12.5
90°	1.2	1.2	1.2	0.0	0.0
92.5°	11.3	11.3	12.5	13.5	14.7
95°	35.1	36.3	39.7	42.0	44.2
97.5°	70.2	72.6	79.3	85.1	87.3
100°	113.4	118.0	128.3	136.0	139.6
102.5°	160.0	166.6	181.6	192.8	198.5
105°	208.8	217.9	238.2	253.0	259.8
107.5°	258.6	270.1	296.1	313.1	322.2
110°	308.4	323.4	351.6	374.2	381.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.5	374.2	408.3	433.3	445.8
115°	408.3	425.4	461.5	490.0	503.7
117.5°	456.1	474.0	513.8	545.7	558.0
120°	501.3	520.6	563.8	596.7	611.4
122.5°	546.7	565.0	610.2	645.3	663.7
125°	589.8	608.0	654.6	690.7	710.1
127.5°	630.8	647.5	696.5	733.9	752.0
130°	670.3	686.3	736.1	772.6	793.0
132.5°	707.8	722.6	772.6	807.7	829.3
135°	744.2	755.5	806.5	841.6	862.2
137.5°	778.0	786.1	836.1	871.2	890.6
140°	812.1	814.6	863.2	896.1	916.4
142.5°	842.8	841.6	888.2	919.9	939.2
145°	871.2	867.8	912.0	940.2	957.4
147.5°	898.3	890.6	932.4	956.4	972.1
150°	922.1	912.0	948.3	972.1	985.6
152.5°	942.4	931.2	961.8	983.4	996.9
155°	963.0	949.5	974.3	994.7	1006.2
157.5°	981.2	964.0	983.4	1001.6	1010.8
160°	996.9	980.2	992.5	1006.2	1013.0
162.5°	1010.8	993.7	999.3	1007.2	1013.0
165°	1022.1	1006.2	1006.2	1009.4	1013.0
167.5°	1031.0	1017.5	1010.8	1011.8	1013.0
170°	1039.1	1025.4	1018.5	1011.8	1010.8
172.5°	1044.7	1031.0	1025.4	1016.3	1009.4
175°	1049.2	1036.9	1029.8	1022.1	1014.1
177.5°	1050.4	1040.1	1034.4	1026.6	1019.7
180°	1035.6	1035.6	1035.6	1035.6	1035.6

(END OF REPORT)