

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: P253521

Luminaire Tested: **J3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253521
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5098.6 lumens
Efficiency: N/A
Efficacy: 137.1 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

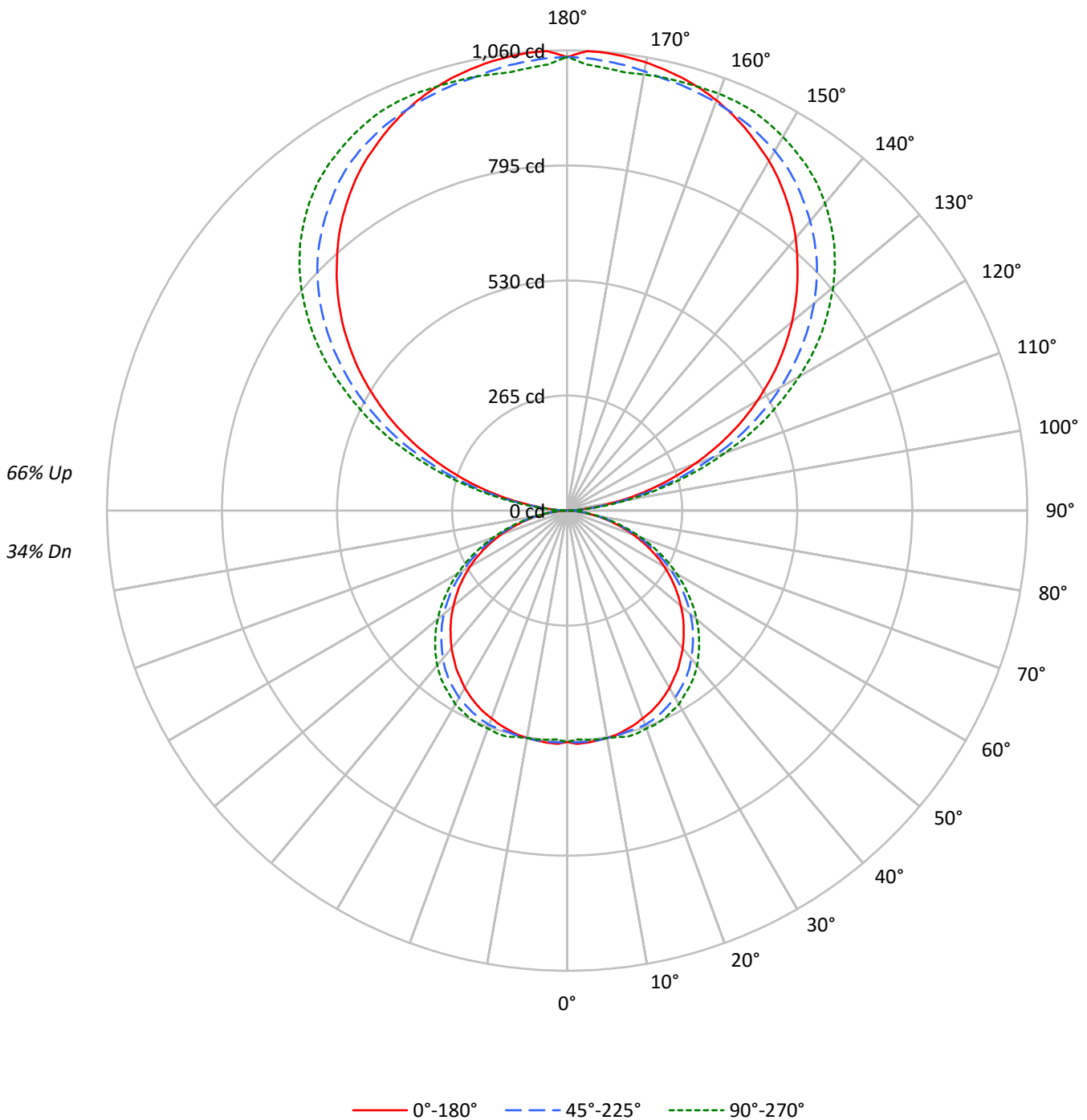
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34					34			
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28					28			
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23					23			
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19					19			
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16					16			
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14					14			
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12					12			
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11					11			
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10					10			
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9					9			
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8					8			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4304	4304	4304
5°	4348	4330	4293
10°	4360	4360	4360
15°	4369	4408	4505
20°	4374	4512	4590
25°	4393	4577	4709
30°	4395	4639	4801
35°	4386	4678	4861
40°	4366	4690	4907
45°	4337	4676	4912
50°	4295	4656	4887
55°	4251	4591	4814
60°	4172	4471	4711
65°	4042	4304	4548
70°	3810	4053	4265
75°	3497	3712	3890
80°	3036	3245	3357
85°	2427	2529	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.0
10°-20°	149.6	2.9
20°-30°	235.6	4.6
30°-40°	294.4	5.8
40°-50°	313.8	6.2
50°-60°	289.3	5.7
60°-70°	222.2	4.4
70°-80°	125.9	2.5
80°-90°	33.2	0.7
90°-100°	53.5	1.0
100°-110°	251.6	4.9
110°-120°	455.9	8.9
120°-130°	585.6	11.5
130°-140°	623.0	12.2
140°-150°	573.3	11.2
150°-160°	453.9	8.9
160°-170°	288.2	5.7
170°-180°	98.9	1.9
0°-30°	436.0	8.6
0°-40°	730.4	14.3
0°-60°	1333.5	26.2
0°-90°	1714.8	33.6
90°-120°	760.9	14.9
90°-150°	2542.8	49.9
90°-180°	3384.0	66.4
0°-180°	5098.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	537	532	534	533	530	51
15°	523	520	527	537	539	148
25°	493	494	514	524	529	227
35°	445	453	475	486	493	278
45°	380	390	410	422	430	293
55°	302	311	326	337	342	270
65°	212	216	225	233	238	209
75°	112	114	119	124	125	119
85°	26	27	27	29	29	30
90°	1	1	1	0	0	3
95°	35	37	40	42	45	46
105°	211	220	240	255	262	223
115°	412	429	466	494	508	406
125°	595	613	660	697	716	531
135°	751	762	814	849	870	579
145°	879	875	920	948	966	550
155°	971	958	983	1003	1015	448
165°	1031	1015	1015	1018	1022	291
175°	1058	1046	1039	1031	1023	101
180°	1045	1045	1045	1045	1045	



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CATALOG NUMBER: J3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.1	533.1	533.1	533.1	533.1
2.5°	537.8	533.1	534.3	534.3	527.4
5°	536.6	531.9	534.3	533.1	529.7
7.5°	534.3	530.9	534.3	534.3	531.9
10°	531.9	528.6	531.9	533.1	531.9
12.5°	528.6	525.2	530.9	533.1	534.3
15°	522.7	520.5	527.4	536.6	539.0
17.5°	517.2	516.0	526.4	536.6	537.8
20°	509.1	509.1	525.2	533.1	534.3
22.5°	502.4	502.4	520.5	528.6	533.1
25°	493.2	494.3	513.8	524.2	528.6
27.5°	482.9	486.3	505.6	517.2	521.7
30°	471.5	477.2	497.7	509.1	515.0
32.5°	457.8	465.6	486.3	497.7	503.4
35°	445.0	453.1	474.7	486.3	493.2
37.5°	429.1	439.3	461.1	472.5	480.6
40°	414.3	424.7	445.0	457.8	465.6
42.5°	397.0	408.4	427.9	440.5	448.5
45°	379.9	390.1	409.6	422.2	430.2
47.5°	361.6	372.0	391.5	402.9	410.6
50°	342.0	353.4	370.7	382.1	389.1
52.5°	322.5	332.9	349.0	360.6	367.3
55°	302.0	311.1	326.2	336.6	342.0
57.5°	280.2	289.3	302.0	312.3	318.0
60°	258.4	265.3	276.9	287.1	291.8
62.5°	235.6	241.5	251.7	259.8	265.3
65°	211.6	216.3	225.3	233.4	238.1
67.5°	186.6	191.1	199.0	205.9	209.4
70°	161.4	165.8	171.7	177.2	180.7
72.5°	137.1	139.6	145.3	150.0	152.2
75°	112.1	114.4	119.0	123.5	124.7
77.5°	89.3	90.3	94.0	96.2	97.3
80°	65.3	67.6	69.8	70.8	72.2
82.5°	44.6	45.8	46.8	48.0	49.0
85°	26.2	27.3	27.3	28.7	28.7
87.5°	11.4	12.6	12.6	12.6	12.6
90°	1.2	1.2	1.2	0.0	0.0
92.5°	11.4	11.4	12.6	13.6	14.9
95°	35.4	36.6	40.1	42.3	44.6
97.5°	70.8	73.3	80.0	85.9	88.1
100°	114.4	119.0	129.4	137.1	140.8
102.5°	161.4	168.1	183.1	194.5	200.2
105°	210.6	219.8	240.3	255.2	262.1
107.5°	260.9	272.5	298.7	315.8	325.0
110°	311.1	326.2	354.7	377.5	384.4



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CATALOG NUMBER: J3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.6	377.5	411.8	437.1	449.7
115°	411.8	429.1	465.6	494.3	508.1
117.5°	460.1	478.2	518.3	550.4	562.8
120°	505.6	525.2	568.7	601.9	616.7
122.5°	551.4	569.9	615.5	650.9	669.4
125°	595.0	613.3	660.3	696.7	716.2
127.5°	636.3	653.2	702.6	740.3	758.6
130°	676.2	692.2	742.5	779.3	799.9
132.5°	714.0	728.9	779.3	814.7	836.5
135°	750.6	762.0	813.5	848.9	869.7
137.5°	784.8	793.0	843.4	878.8	898.4
140°	819.2	821.7	870.7	903.9	924.4
142.5°	850.1	848.9	895.9	927.9	947.4
145°	878.8	875.4	919.9	948.4	965.7
147.5°	906.1	898.4	940.5	964.7	980.6
150°	930.1	919.9	956.6	980.6	994.2
152.5°	950.7	939.3	970.2	992.0	1005.6
155°	971.4	957.8	982.8	1003.4	1015.0
157.5°	989.7	972.4	992.0	1010.3	1019.6
160°	1005.6	988.7	1001.1	1015.0	1021.9
162.5°	1019.6	1002.3	1008.0	1016.0	1021.9
165°	1031.0	1015.0	1015.0	1018.2	1021.9
167.5°	1040.0	1026.4	1019.6	1020.7	1021.9
170°	1048.1	1034.3	1027.4	1020.7	1019.6
172.5°	1053.8	1040.0	1034.3	1025.1	1018.2
175°	1058.3	1045.9	1038.8	1031.0	1022.9
177.5°	1059.5	1049.1	1043.4	1035.5	1028.6
180°	1044.7	1044.7	1044.7	1044.7	1044.7

(END OF REPORT)