

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: P253551

Luminaire Tested: **J3-FL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253551
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4485.3 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

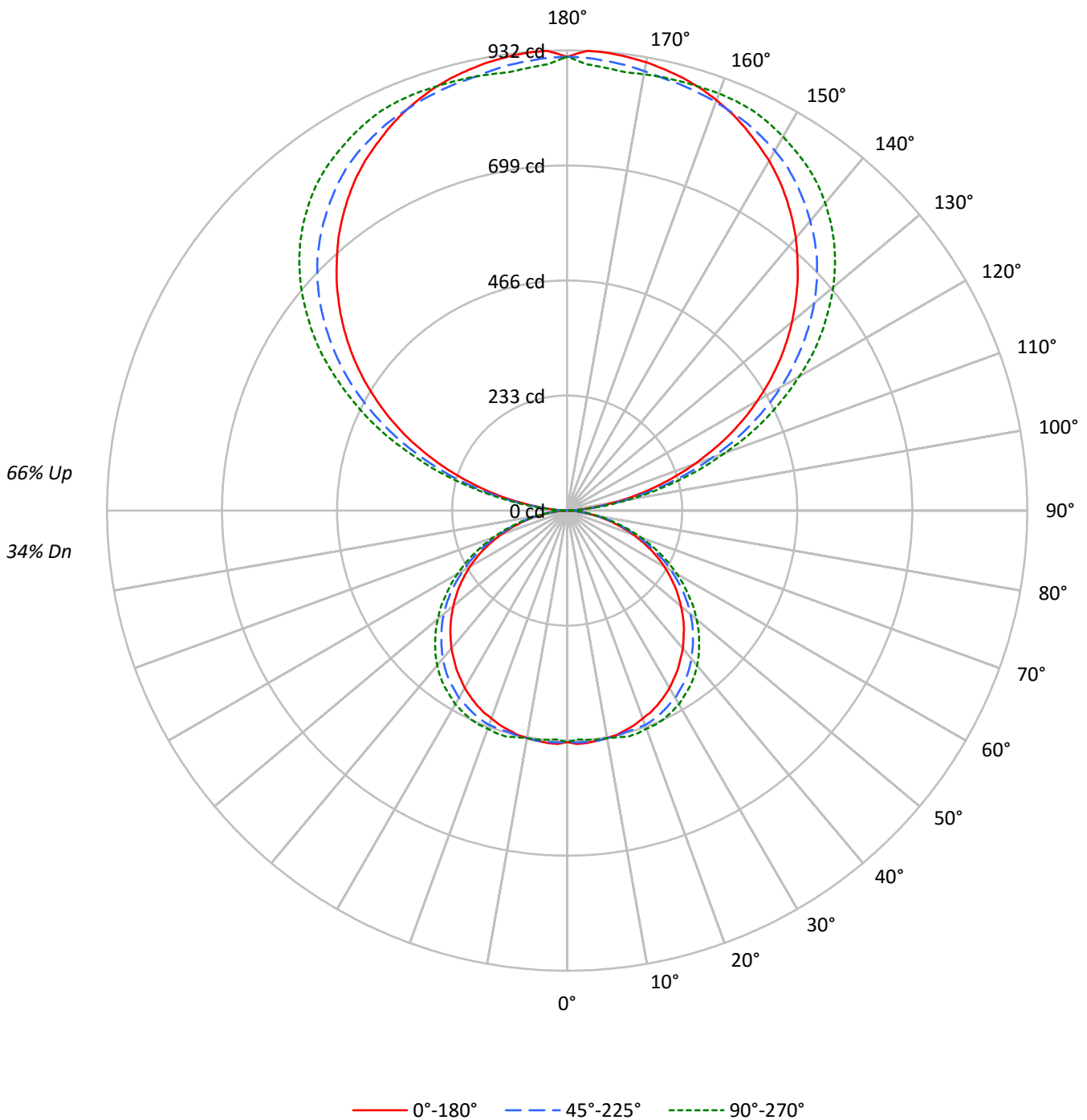
Input Watts (W): 37
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3786	3786	3786
5°	3825	3810	3776
10°	3836	3836	3836
15°	3844	3878	3963
20°	3848	3969	4039
25°	3865	4026	4143
30°	3867	4081	4224
35°	3858	4116	4276
40°	3841	4126	4317
45°	3816	4113	4320
50°	3779	4096	4299
55°	3738	4038	4235
60°	3670	3933	4145
65°	3557	3786	4000
70°	3349	3567	3753
75°	3075	3266	3422
80°	2673	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°	207.3	4.6
30°-40°	259.0	5.8
40°-50°	276.0	6.2
50°-60°	254.5	5.7
60°-70°	195.5	4.4
70°-80°	110.8	2.5
80°-90°	29.2	0.7
90°-100°	47.0	1.0
100°-110°	221.3	4.9
110°-120°	401.1	8.9
120°-130°	515.2	11.5
130°-140°	548.1	12.2
140°-150°	504.3	11.2
150°-160°	399.3	8.9
160°-170°	253.5	5.7
170°-180°	87.0	1.9
0°-30°	383.6	8.6
0°-40°	642.6	14.3
0°-60°	1173.1	26.2
0°-90°	1508.5	33.6
90°-120°	669.4	14.9
90°-150°	2237.0	49.9
90°-180°	2977.0	66.4
0°-180°	4485.3	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°	392	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	231	196
115°	362	378	410	435	447	357
125°	523	540	581	613	630	467
135°	660	670	716	747	765	509
145°	773	770	809	834	850	484
155°	855	843	865	883	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°	469.0	469.0	469.0	469.0	469.0
2.5°	473.1	469.0	470.1	470.1	464.0
5°	472.0	467.9	470.1	469.0	465.9
7.5°	470.1	467.0	470.1	470.1	467.9
10°	467.9	465.1	467.9	469.0	467.9
12.5°	465.1	462.0	467.0	469.0	470.1
15°	459.9	457.9	464.0	472.0	474.2
17.5°	455.0	454.0	463.1	472.0	473.1
20°	447.9	447.9	462.0	469.0	470.1
22.5°	442.0	442.0	457.9	465.1	469.0
25°	433.9	434.8	452.0	461.1	465.1
27.5°	424.8	427.8	444.8	455.0	459.0
30°	414.8	419.8	437.8	447.9	453.1
32.5°	402.8	409.6	427.8	437.8	442.9
35°	391.5	398.6	417.6	427.8	433.9
37.5°	377.5	386.5	405.6	415.6	422.8
40°	364.5	373.6	391.5	402.8	409.6
42.5°	349.2	359.3	376.4	387.5	394.5
45°	334.2	343.1	360.3	371.4	378.4
47.5°	318.1	327.2	344.4	354.4	361.2
50°	300.9	310.9	326.1	336.2	342.3
52.5°	283.7	292.8	307.0	317.2	323.1
55°	265.6	273.7	286.9	296.1	300.9
57.5°	246.5	254.5	265.6	274.8	279.8
60°	227.3	233.4	243.6	252.6	256.7
62.5°	207.3	212.5	221.4	228.6	233.4
65°	186.2	190.3	198.2	205.3	209.4
67.5°	164.1	168.1	175.1	181.2	184.2
70°	141.9	145.9	151.1	155.9	159.0
72.5°	120.6	122.8	127.8	131.9	133.9
75°	98.6	100.6	104.7	108.7	109.7
77.5°	78.6	79.5	82.7	84.7	85.6
80°	57.5	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	123.9
102.5°	141.9	147.9	161.1	171.1	176.1
105°	185.3	193.3	211.4	224.5	230.6
107.5°	229.5	239.7	262.8	277.8	285.9
110°	273.7	286.9	312.0	332.1	338.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.1	332.1	362.3	384.5	395.6
115°	362.3	377.5	409.6	434.8	447.0
117.5°	404.7	420.7	455.9	484.2	495.1
120°	444.8	462.0	500.3	529.5	542.6
122.5°	485.1	501.4	541.5	572.6	588.9
125°	523.4	539.5	580.9	612.9	630.1
127.5°	559.7	574.6	618.1	651.2	667.3
130°	594.8	609.0	653.2	685.6	703.7
132.5°	628.1	641.2	685.6	716.7	735.9
135°	660.3	670.4	715.7	746.8	765.1
137.5°	690.4	697.6	742.0	773.1	790.3
140°	720.7	722.8	766.0	795.1	813.2
142.5°	747.9	746.8	788.2	816.3	833.4
145°	773.1	770.1	809.3	834.3	849.6
147.5°	797.1	790.3	827.4	848.7	862.6
150°	818.2	809.3	841.5	862.6	874.6
152.5°	836.3	826.3	853.5	872.6	884.6
155°	854.6	842.6	864.6	882.7	892.9
157.5°	870.7	855.5	872.6	888.8	897.0
160°	884.6	869.8	880.7	892.9	899.0
162.5°	897.0	881.8	886.8	893.8	899.0
165°	907.0	892.9	892.9	895.7	899.0
167.5°	914.9	902.9	897.0	897.9	899.0
170°	922.0	909.9	903.8	897.9	897.0
172.5°	927.1	914.9	909.9	901.8	895.7
175°	931.0	920.1	913.8	907.0	899.9
177.5°	932.1	922.9	917.9	910.9	904.9
180°	919.0	919.0	919.0	919.0	919.0

(END OF REPORT)