

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: P253539

Luminaire Tested: **J3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253539
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080.8 lumens
Efficiency: N/A
Efficacy: 112.7 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

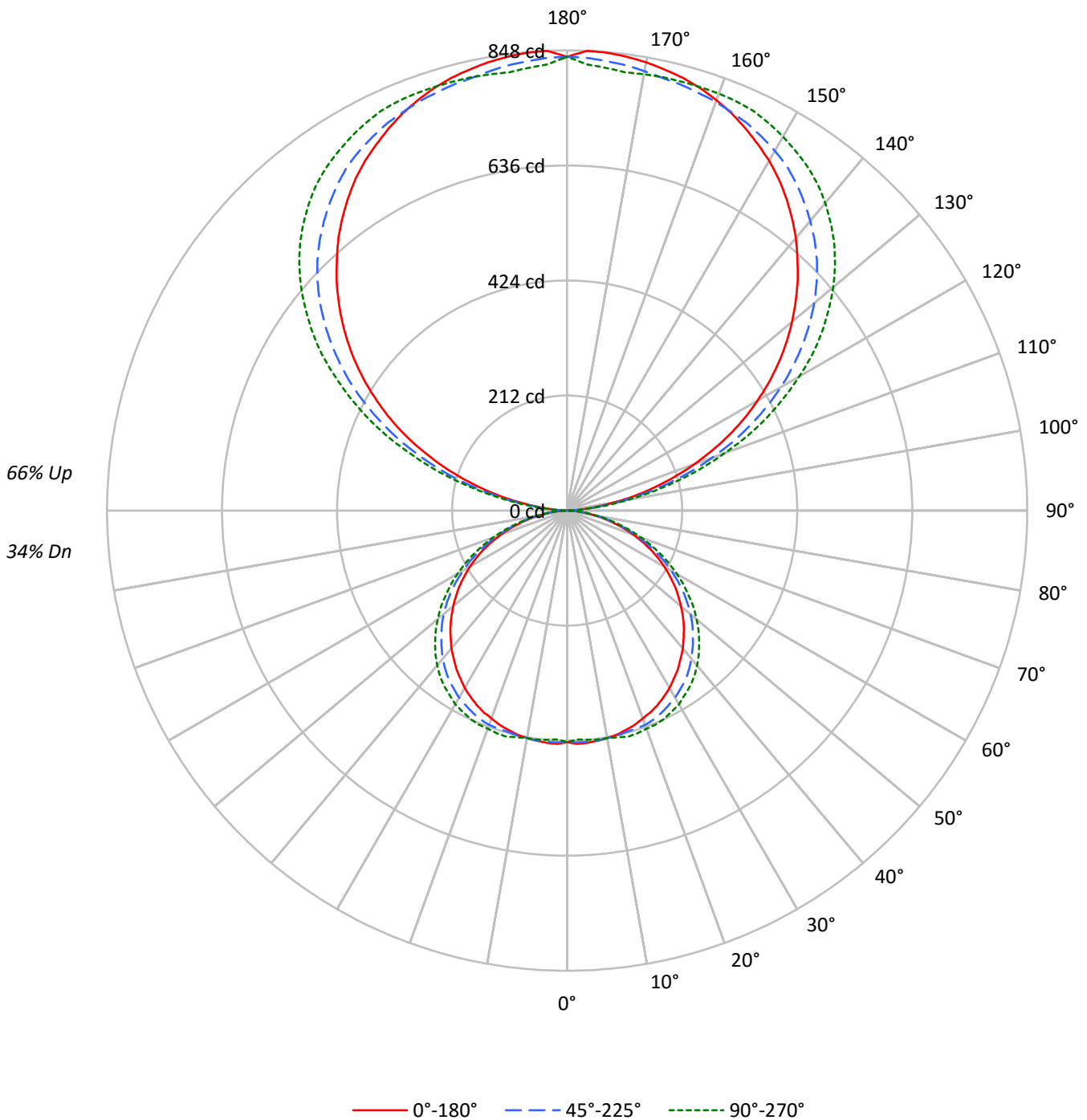
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3445	3445	3445
5°	3481	3466	3435
10°	3490	3490	3490
15°	3497	3528	3606
20°	3501	3611	3674
25°	3517	3663	3769
30°	3517	3713	3842
35°	3510	3744	3891
40°	3495	3754	3927
45°	3472	3742	3931
50°	3439	3726	3911
55°	3402	3675	3854
60°	3339	3578	3770
65°	3236	3444	3639
70°	3047	3246	3413
75°	2798	2973	3113
80°	2431	2599	2687
85°	1945	2019	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	1.0
10°-20°	119.7	2.9
20°-30°	188.6	4.6
30°-40°	235.6	5.8
40°-50°	251.1	6.2
50°-60°	231.6	5.7
60°-70°	177.9	4.4
70°-80°	100.8	2.5
80°-90°	26.6	0.7
90°-100°	42.8	1.0
100°-110°	201.3	4.9
110°-120°	364.9	8.9
120°-130°	468.7	11.5
130°-140°	498.6	12.2
140°-150°	458.8	11.2
150°-160°	363.3	8.9
160°-170°	230.7	5.7
170°-180°	79.1	1.9
0°-30°	349.0	8.6
0°-40°	584.6	14.3
0°-60°	1067.3	26.2
0°-90°	1372.5	33.6
90°-120°	609.0	14.9
90°-150°	2035.2	49.9
90°-180°	2708.0	66.4
0°-180°	4080.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	430	426	428	427	424	41
15°	418	417	422	430	431	118
25°	395	396	411	420	423	182
35°	356	363	380	389	395	223
45°	304	312	328	338	344	234
55°	242	249	261	269	274	216
65°	169	173	180	187	190	167
75°	90	92	95	99	100	95
85°	21	22	22	23	23	24
90°	1	1	1	0	0	3
95°	28	29	32	34	36	37
105°	169	176	192	204	210	178
115°	330	344	373	396	407	325
125°	476	491	528	558	573	425
135°	601	610	651	679	696	463
145°	703	701	736	759	773	440
155°	778	767	787	803	812	358
165°	825	812	812	815	818	233
175°	847	837	831	825	819	81
180°	836	836	836	836	836	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	426.7	426.7	426.7	426.7	426.7
2.5°	430.4	426.7	427.7	427.7	422.1
5°	429.5	425.7	427.7	426.7	423.9
7.5°	427.7	424.9	427.7	427.7	425.7
10°	425.7	423.1	425.7	426.7	425.7
12.5°	423.1	420.3	424.9	426.7	427.7
15°	418.4	416.6	422.1	429.5	431.4
17.5°	414.0	413.0	421.3	429.5	430.4
20°	407.5	407.5	420.3	426.7	427.7
22.5°	402.1	402.1	416.6	423.1	426.7
25°	394.8	395.6	411.2	419.5	423.1
27.5°	386.5	389.2	404.7	414.0	417.6
30°	377.3	381.9	398.3	407.5	412.2
32.5°	366.4	372.6	389.2	398.3	402.9
35°	356.2	362.7	379.9	389.2	394.8
37.5°	343.5	351.6	369.0	378.2	384.7
40°	331.6	339.9	356.2	366.4	372.6
42.5°	317.7	326.9	342.5	352.6	358.9
45°	304.1	312.2	327.8	337.9	344.3
47.5°	289.4	297.7	313.3	322.5	328.6
50°	273.8	282.9	296.7	305.8	311.4
52.5°	258.1	266.4	279.3	288.6	294.0
55°	241.7	249.0	261.1	269.4	273.8
57.5°	224.3	231.6	241.7	250.0	254.5
60°	206.8	212.4	221.6	229.8	233.5
62.5°	188.6	193.3	201.5	208.0	212.4
65°	169.4	173.1	180.3	186.8	190.5
67.5°	149.3	152.9	159.3	164.8	167.6
70°	129.1	132.7	137.5	141.8	144.6
72.5°	109.8	111.7	116.3	120.0	121.8
75°	89.7	91.5	95.3	98.9	99.8
77.5°	71.5	72.3	75.2	77.0	77.8
80°	52.3	54.1	55.9	56.7	57.8
82.5°	35.7	36.6	37.5	38.4	39.2
85°	21.0	21.8	21.8	23.0	23.0
87.5°	9.1	10.1	10.1	10.1	10.1
90°	1.0	1.0	1.0	0.0	0.0
92.5°	9.1	9.1	10.1	10.9	11.9
95°	28.3	29.3	32.1	33.9	35.7
97.5°	56.7	58.6	64.0	68.7	70.5
100°	91.5	95.3	103.6	109.8	112.7
102.5°	129.1	134.5	146.6	155.7	160.3
105°	168.6	175.9	192.3	204.2	209.8
107.5°	208.8	218.1	239.1	252.8	260.1
110°	249.0	261.1	283.9	302.1	307.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.4	302.1	329.6	349.8	359.9
115°	329.6	343.5	372.6	395.6	406.7
117.5°	368.2	382.7	414.8	440.5	450.5
120°	404.7	420.3	455.2	481.7	493.6
122.5°	441.3	456.2	492.6	521.0	535.8
125°	476.2	490.9	528.5	557.6	573.3
127.5°	509.3	522.8	562.3	592.5	607.1
130°	541.2	554.0	594.3	623.7	640.2
132.5°	571.5	583.4	623.7	652.1	669.5
135°	600.8	609.9	651.1	679.4	696.1
137.5°	628.1	634.7	675.0	703.4	719.0
140°	655.7	657.6	696.9	723.4	739.9
142.5°	680.4	679.4	717.1	742.6	758.3
145°	703.4	700.6	736.3	759.1	772.9
147.5°	725.2	719.0	752.7	772.1	784.8
150°	744.4	736.3	765.6	784.8	795.7
152.5°	760.9	751.8	776.5	793.9	804.8
155°	777.5	766.6	786.6	803.1	812.3
157.5°	792.1	778.3	793.9	808.6	816.1
160°	804.8	791.3	801.3	812.3	817.9
162.5°	816.1	802.2	806.8	813.1	817.9
165°	825.2	812.3	812.3	814.9	817.9
167.5°	832.4	821.5	816.1	816.9	817.9
170°	838.9	827.8	822.3	816.9	816.1
172.5°	843.4	832.4	827.8	820.5	814.9
175°	847.0	837.1	831.4	825.2	818.7
177.5°	848.0	839.7	835.1	828.8	823.2
180°	836.1	836.1	836.1	836.1	836.1

(END OF REPORT)