

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: P253509

Luminaire Tested: **J3-FL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253509
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4802.3 lumens
Efficiency: N/A
Efficacy: 135.3 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

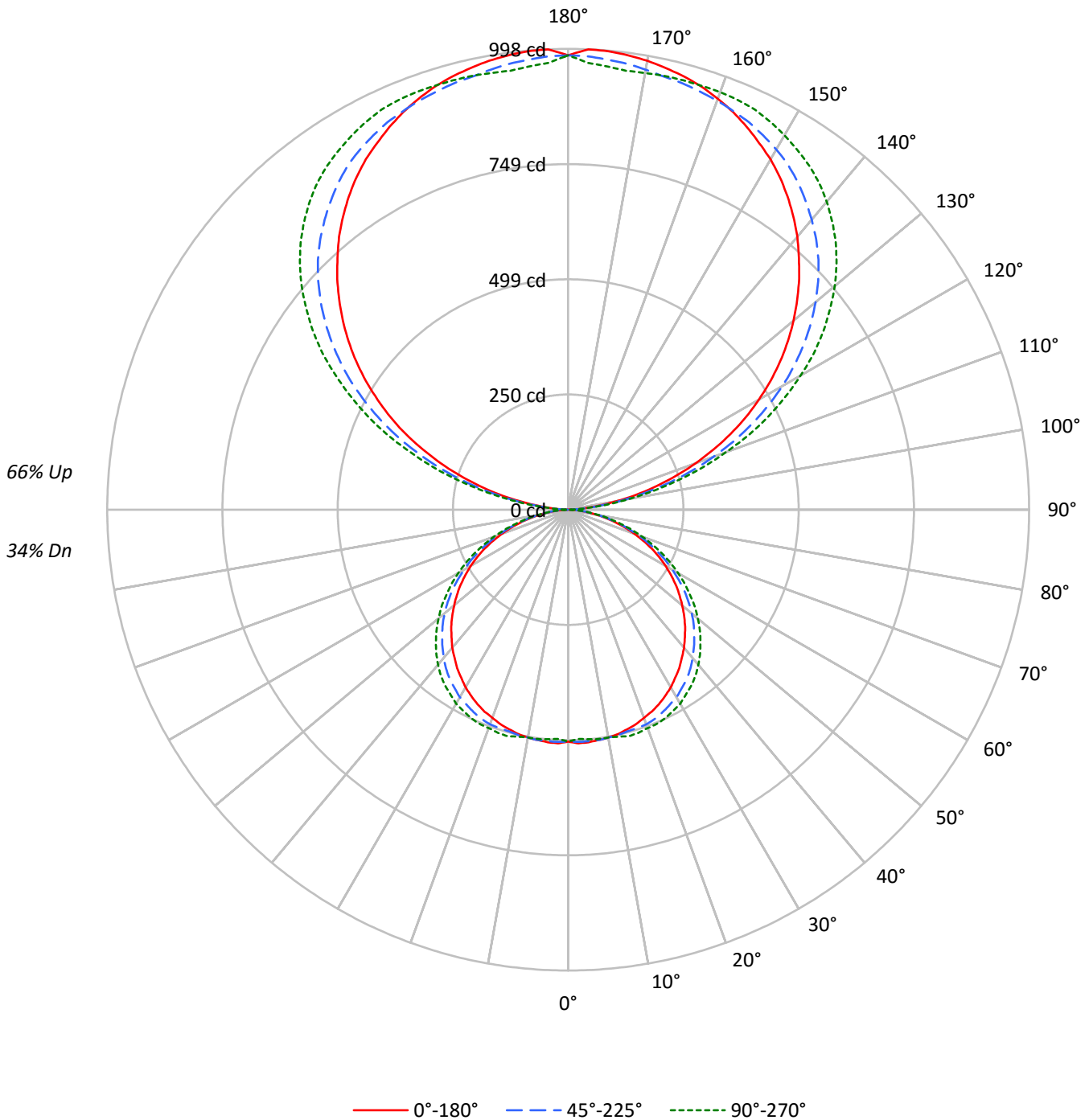
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4053	4053	4053
5°	4096	4079	4043
10°	4107	4107	4107
15°	4115	4152	4243
20°	4119	4250	4324
25°	4138	4310	4435
30°	4140	4370	4522
35°	4130	4406	4579
40°	4112	4417	4621
45°	4085	4405	4626
50°	4047	4386	4602
55°	4003	4324	4535
60°	3930	4211	4437
65°	3807	4053	4283
70°	3588	3819	4017
75°	3294	3497	3665
80°	2859	3054	3161
85°	2288	2381	2501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.0
10°-20°	140.9	2.9
20°-30°	221.9	4.6
30°-40°	277.3	5.8
40°-50°	295.5	6.2
50°-60°	272.5	5.7
60°-70°	209.3	4.4
70°-80°	118.6	2.5
80°-90°	31.2	0.7
90°-100°	50.3	1.0
100°-110°	236.9	4.9
110°-120°	429.4	8.9
120°-130°	551.6	11.5
130°-140°	586.8	12.2
140°-150°	539.9	11.2
150°-160°	427.6	8.9
160°-170°	271.4	5.7
170°-180°	93.1	1.9
0°-30°	410.7	8.6
0°-40°	688.0	14.3
0°-60°	1256.0	26.2
0°-90°	1615.1	33.6
90°-120°	716.7	14.9
90°-150°	2395.0	49.9
90°-180°	3187.0	66.4
0°-180°	4802.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	505	501	503	502	499	48
15°	492	490	497	505	508	139
25°	465	466	484	494	498	214
35°	419	427	447	458	465	262
45°	358	367	386	398	405	276
55°	284	293	307	317	322	254
65°	199	204	212	220	224	197
75°	106	108	112	116	118	112
85°	25	26	26	27	27	28
90°	1	1	1	0	0	3
95°	33	34	38	40	42	43
105°	198	207	226	240	247	210
115°	388	404	438	466	479	383
125°	560	578	622	656	675	500
135°	707	718	766	800	819	545
145°	828	824	866	893	910	518
155°	915	902	926	945	956	422
165°	971	956	956	959	962	274
175°	997	985	978	971	964	95
180°	984	984	984	984	984	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502.1	502.1	502.1	502.1	502.1
2.5°	506.5	502.1	503.3	503.3	496.8
5°	505.4	501.0	503.3	502.1	498.9
7.5°	503.3	500.0	503.3	503.3	501.0
10°	501.0	497.9	501.0	502.1	501.0
12.5°	497.9	494.7	500.0	502.1	503.3
15°	492.4	490.3	496.8	505.4	507.7
17.5°	487.2	486.0	495.8	505.4	506.5
20°	479.5	479.5	494.7	502.1	503.3
22.5°	473.2	473.2	490.3	497.9	502.1
25°	464.6	465.5	483.9	493.7	497.9
27.5°	454.8	458.1	476.3	487.2	491.4
30°	444.1	449.4	468.8	479.5	485.1
32.5°	431.2	438.5	458.1	468.8	474.2
35°	419.1	426.8	447.1	458.1	464.6
37.5°	404.2	413.8	434.3	445.0	452.7
40°	390.2	400.0	419.1	431.2	438.5
42.5°	373.9	384.7	403.1	414.9	422.4
45°	357.8	367.4	385.8	397.7	405.2
47.5°	340.6	350.3	368.7	379.5	386.8
50°	322.2	332.9	349.2	359.9	366.4
52.5°	303.8	313.5	328.7	339.6	345.9
55°	284.4	293.0	307.2	317.0	322.2
57.5°	263.9	272.5	284.4	294.2	299.6
60°	243.4	249.9	260.8	270.4	274.8
62.5°	221.9	227.5	237.1	244.7	249.9
65°	199.3	203.7	212.2	219.8	224.2
67.5°	175.7	180.0	187.4	194.0	197.2
70°	152.0	156.2	161.8	166.9	170.2
72.5°	129.2	131.5	136.8	141.2	143.4
75°	105.6	107.7	112.1	116.3	117.5
77.5°	84.1	85.1	88.5	90.7	91.6
80°	61.5	63.6	65.7	66.7	68.0
82.5°	42.0	43.1	44.1	45.2	46.2
85°	24.7	25.7	25.7	27.0	27.0
87.5°	10.7	11.9	11.9	11.9	11.9
90°	1.1	1.1	1.1	0.0	0.0
92.5°	10.7	10.7	11.9	12.8	14.0
95°	33.3	34.5	37.8	39.9	42.0
97.5°	66.7	69.0	75.3	80.9	83.0
100°	107.7	112.1	121.9	129.2	132.6
102.5°	152.0	158.3	172.5	183.2	188.6
105°	198.4	207.0	226.3	240.3	246.9
107.5°	245.7	256.6	281.3	297.4	306.1
110°	293.0	307.2	334.1	355.5	362.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	340.6	355.5	387.9	411.7	423.6
115°	387.9	404.2	438.5	465.5	478.6
117.5°	433.3	450.4	488.1	518.4	530.1
120°	476.3	494.7	535.7	566.9	580.9
122.5°	519.4	536.8	579.8	613.1	630.5
125°	560.4	577.6	621.9	656.2	674.6
127.5°	599.3	615.2	661.8	697.2	714.5
130°	636.9	652.0	699.3	734.0	753.4
132.5°	672.5	686.5	734.0	767.4	787.9
135°	707.0	717.7	766.2	799.6	819.1
137.5°	739.2	746.9	794.4	827.8	846.2
140°	771.6	773.9	820.1	851.3	870.7
142.5°	800.7	799.6	843.9	873.9	892.3
145°	827.8	824.5	866.5	893.3	909.6
147.5°	853.4	846.2	885.8	908.6	923.6
150°	876.1	866.5	901.0	923.6	936.4
152.5°	895.4	884.7	913.8	934.3	947.2
155°	915.0	902.1	925.7	945.1	956.0
157.5°	932.2	915.9	934.3	951.6	960.4
160°	947.2	931.3	942.9	956.0	962.5
162.5°	960.4	944.1	949.5	956.9	962.5
165°	971.1	956.0	956.0	959.0	962.5
167.5°	979.5	966.7	960.4	961.3	962.5
170°	987.2	974.2	967.7	961.3	960.4
172.5°	992.6	979.5	974.2	965.6	959.0
175°	996.8	985.1	978.4	971.1	963.5
177.5°	997.9	988.2	982.8	975.3	968.8
180°	984.0	984.0	984.0	984.0	984.0

(END OF REPORT)