

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: P253497

Luminaire Tested: **J3-CL-50L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-50L93050-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4481.3 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

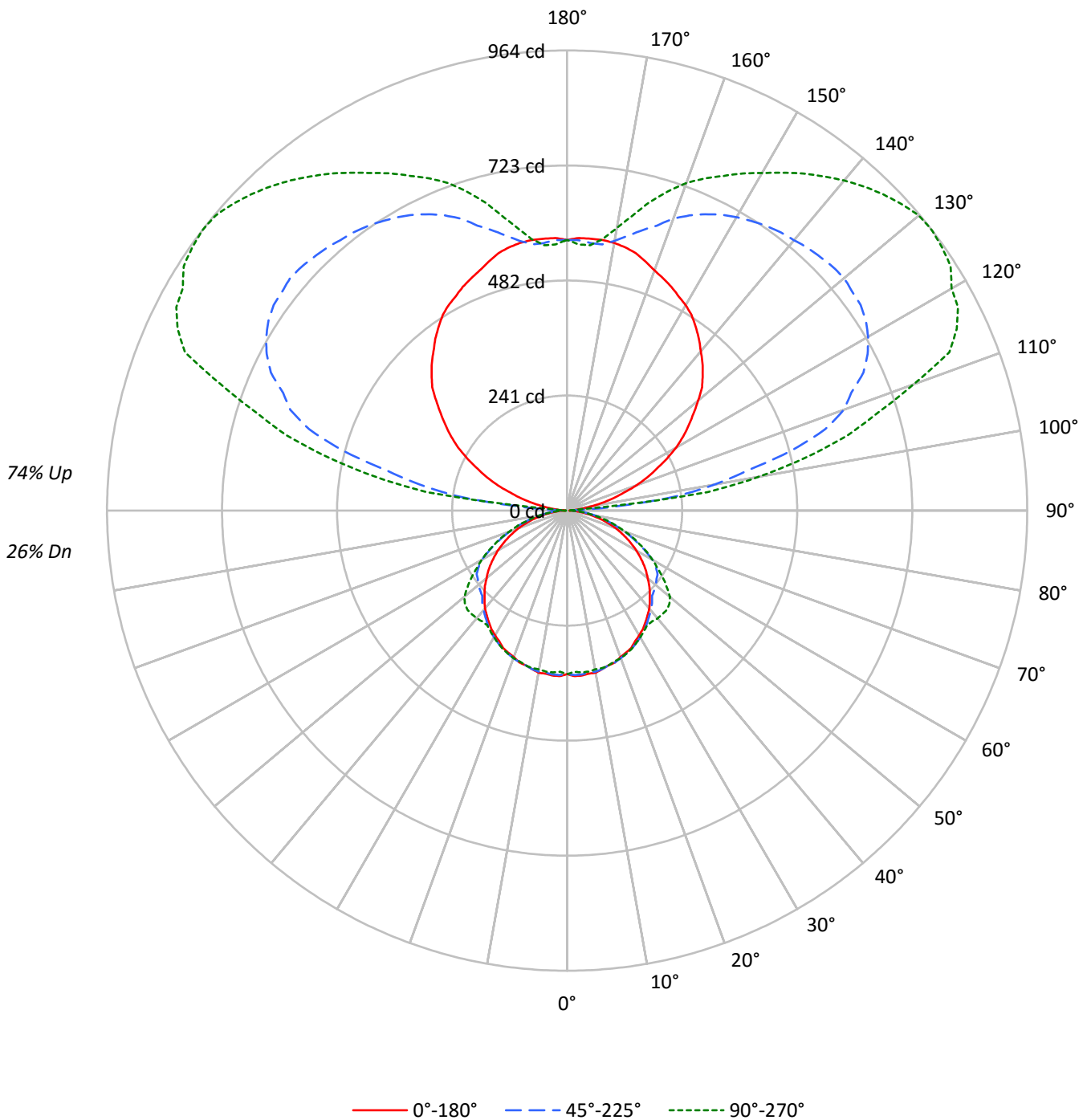
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2765	2765	2765
5°	2812	2793	2757
10°	2826	2808	2770
15°	2806	2806	2806
20°	2806	2826	2826
25°	2828	2849	2849
30°	2811	2854	2854
35°	2817	2861	2884
40°	2820	2869	3107
45°	2796	2875	3366
50°	2763	3048	3532
55°	2746	3255	3447
60°	2709	3333	3333
65°	2642	3163	3205
70°	2570	2998	3052
75°	2405	2829	2901
80°	2213	2743	2636
85°	2103	2946	2519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	0.7
10°-20°	94.8	2.1
20°-30°	146.5	3.3
30°-40°	181.7	4.1
40°-50°	203.3	4.5
50°-60°	198.7	4.4
60°-70°	156.7	3.5
70°-80°	94.8	2.1
80°-90°	33.8	0.8
90°-100°	116.4	2.6
100°-110°	450.1	10.0
110°-120°	618.6	13.8
120°-130°	625.8	14.0
130°-140°	554.7	12.4
140°-150°	438.7	9.8
150°-160°	306.3	6.8
160°-170°	173.3	3.9
170°-180°	54.3	1.2
0°-30°	273.9	6.1
0°-40°	455.6	10.2
0°-60°	857.6	19.1
0°-90°	1143.0	25.5
90°-120°	1185.2	26.4
90°-150°	2804.3	62.6
90°-180°	3338.0	74.5
0°-180°	4481.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	347	342	345	342	340	33
15°	336	333	336	336	336	95
25°	318	313	320	320	320	146
35°	286	286	290	293	293	179
45°	245	247	252	284	295	189
55°	195	197	231	245	245	174
65°	138	145	166	168	168	136
75°	77	91	91	93	93	82
85°	23	36	32	30	27	24
90°	4	14	11	2	2	4
95°	18	91	109	23	23	22
105°	100	322	488	562	608	106
115°	206	436	685	848	900	206
125°	311	504	751	914	959	278
135°	401	553	751	898	937	309
145°	470	567	728	835	862	294
155°	517	553	685	760	773	238
165°	558	556	608	660	669	157
175°	572	565	562	562	558	54
180°	567	567	567	567	567	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	342.5	342.5	342.5	342.5	342.5
2.5°	347.0	342.5	344.7	342.5	337.9
5°	347.0	342.5	344.7	342.5	340.2
7.5°	344.7	342.5	342.5	340.2	340.2
10°	344.7	340.2	342.5	340.2	337.9
12.5°	340.2	337.9	340.2	337.9	337.9
15°	335.7	333.4	335.7	335.7	335.7
17.5°	333.4	328.9	333.4	333.4	331.1
20°	326.6	324.3	328.9	328.9	328.9
22.5°	322.1	319.8	324.3	324.3	324.3
25°	317.5	313.0	319.8	319.8	319.8
27.5°	308.5	308.5	313.0	315.3	313.0
30°	301.6	299.4	306.2	308.5	306.2
32.5°	294.8	292.6	299.4	301.6	299.4
35°	285.8	285.8	290.3	292.6	292.6
37.5°	276.7	276.7	281.2	283.5	292.6
40°	267.6	267.6	272.2	285.8	294.8
42.5°	256.3	256.3	263.1	283.5	294.8
45°	244.9	247.2	251.8	283.5	294.8
47.5°	233.6	235.9	247.2	281.2	290.3
50°	220.0	224.5	242.7	274.4	281.2
52.5°	208.7	210.9	235.9	263.1	263.1
55°	195.1	197.3	231.3	244.9	244.9
57.5°	181.4	183.7	220.0	224.5	224.5
60°	167.8	170.1	206.4	206.4	206.4
62.5°	152.0	156.5	186.0	188.2	188.2
65°	138.3	145.2	165.6	167.8	167.8
67.5°	122.5	133.8	147.4	149.7	149.7
70°	108.9	122.5	127.0	129.3	129.3
72.5°	93.0	106.6	108.9	111.1	111.1
75°	77.1	90.7	90.7	93.0	93.0
77.5°	61.2	72.6	74.8	74.8	74.8
80°	47.6	54.4	59.0	56.7	56.7
82.5°	34.0	43.1	43.1	43.1	40.8
85°	22.7	36.3	31.8	29.5	27.2
87.5°	13.6	31.8	18.1	15.9	15.9
90°	4.5	13.6	11.3	2.3	2.3
92.5°	9.1	22.7	11.3	9.1	6.8
95°	18.1	90.7	108.9	22.7	22.7
97.5°	34.0	152.0	233.6	276.7	297.1
100°	52.2	226.8	313.0	383.3	408.2
102.5°	74.8	274.4	385.6	474.0	510.3
105°	99.8	322.1	487.6	562.5	607.8
107.5°	124.7	358.3	567.0	650.9	682.7
110°	154.2	387.8	616.9	762.1	771.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.4	410.5	644.1	816.5	866.4
115°	206.4	435.5	684.9	848.2	900.4
117.5°	235.9	453.6	709.9	866.4	923.1
120°	263.1	469.5	728.0	889.1	929.9
122.5°	288.0	487.6	741.6	907.2	952.6
125°	310.7	503.5	750.7	914.0	959.4
127.5°	333.4	517.1	753.0	916.3	963.9
130°	358.3	530.7	757.5	914.0	961.6
132.5°	383.3	544.3	755.3	907.2	950.3
135°	401.4	553.4	750.7	898.1	936.7
137.5°	419.6	560.2	746.2	884.5	920.8
140°	435.5	564.7	739.4	868.7	902.7
142.5°	453.6	567.0	734.8	852.8	882.3
145°	469.5	567.0	728.0	834.6	861.9
147.5°	485.4	564.7	719.0	816.5	839.2
150°	496.7	560.2	709.9	798.3	816.5
152.5°	505.8	555.7	698.6	777.9	796.1
155°	517.1	553.4	684.9	759.8	773.4
157.5°	526.2	553.4	669.1	739.4	753.0
160°	535.3	553.4	650.9	719.0	730.3
162.5°	546.6	553.4	626.0	689.5	700.8
165°	557.9	555.7	607.8	660.0	669.1
167.5°	564.7	555.7	589.7	623.7	632.8
170°	569.3	560.2	573.8	598.8	601.0
172.5°	571.5	564.7	562.5	573.8	573.8
175°	571.5	564.7	562.5	562.5	557.9
177.5°	571.5	567.0	567.0	564.7	557.9
180°	567.0	567.0	567.0	567.0	567.0

(END OF REPORT)