

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: P275027

Luminaire Tested: **J3-CL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275027
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-50L82765-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.7 lumens
Efficiency: N/A
Efficacy: 134.7 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

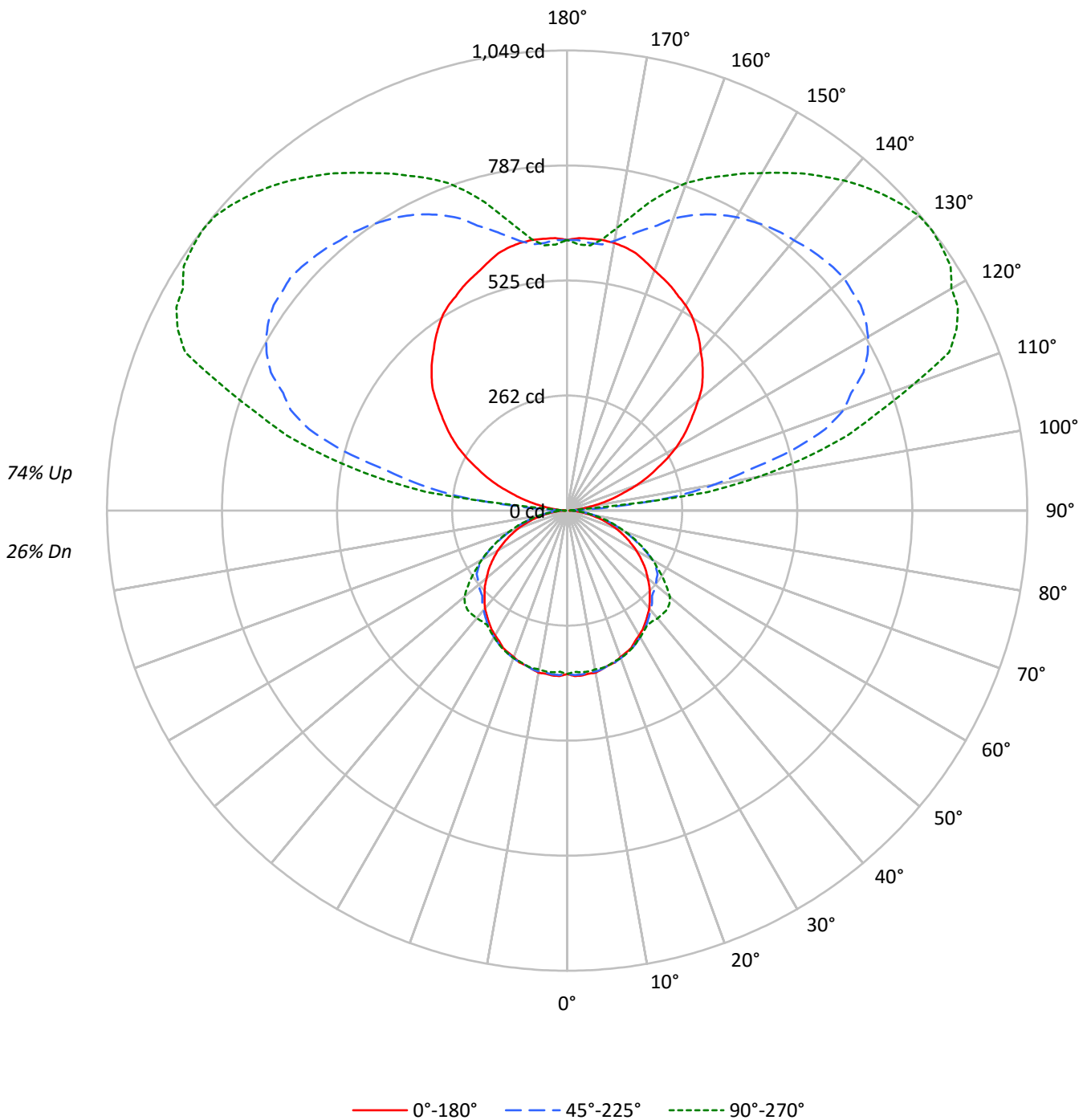
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3008	3008	3008
5°	3059	3040	2999
10°	3075	3054	3014
15°	3052	3052	3052
20°	3052	3074	3074
25°	3078	3099	3099
30°	3059	3105	3105
35°	3064	3113	3137
40°	3069	3120	3381
45°	3043	3127	3663
50°	3007	3316	3843
55°	2987	3543	3751
60°	2948	3626	3626
65°	2875	3440	3488
70°	2795	3262	3321
75°	2617	3079	3157
80°	2408	2985	2868
85°	2288	3196	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	0.7
10°-20°	103.1	2.1
20°-30°	159.4	3.3
30°-40°	197.7	4.1
40°-50°	221.2	4.5
50°-60°	216.2	4.4
60°-70°	170.5	3.5
70°-80°	103.2	2.1
80°-90°	36.7	0.8
90°-100°	126.6	2.6
100°-110°	489.8	10.0
110°-120°	673.1	13.8
120°-130°	680.9	14.0
130°-140°	603.5	12.4
140°-150°	477.3	9.8
150°-160°	333.3	6.8
160°-170°	188.6	3.9
170°-180°	59.1	1.2
0°-30°	298.0	6.1
0°-40°	495.7	10.2
0°-60°	933.1	19.1
0°-90°	1243.6	25.5
90°-120°	1289.5	26.4
90°-150°	3051.1	62.6
90°-180°	3632.0	74.5
0°-180°	4875.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	378	373	375	373	370	36
15°	365	363	365	365	365	103
25°	346	340	348	348	348	159
35°	311	311	316	318	318	195
45°	266	269	274	308	321	206
55°	212	215	252	266	266	190
65°	150	158	180	183	183	148
75°	84	99	99	101	101	89
85°	25	40	34	32	30	26
90°	5	15	12	2	2	5
95°	20	99	118	25	25	24
105°	109	350	530	612	661	115
115°	225	474	745	923	980	224
125°	338	548	817	994	1044	302
135°	437	602	817	977	1019	336
145°	511	617	792	908	938	319
155°	563	602	745	827	842	259
165°	607	605	661	718	728	171
175°	622	614	612	612	607	59
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	372.6	372.6	372.6	372.6	372.6
2.5°	377.5	372.6	375.1	372.6	367.7
5°	377.5	372.6	375.1	372.6	370.1
7.5°	375.1	372.6	372.6	370.1	370.1
10°	375.1	370.1	372.6	370.1	367.7
12.5°	370.1	367.7	370.1	367.7	367.7
15°	365.2	362.7	365.2	365.2	365.2
17.5°	362.7	357.8	362.7	362.7	360.3
20°	355.3	352.9	357.8	357.8	357.8
22.5°	350.4	347.9	352.9	352.9	352.9
25°	345.5	340.5	347.9	347.9	347.9
27.5°	335.6	335.6	340.5	343.0	340.5
30°	328.2	325.7	333.1	335.6	333.1
32.5°	320.8	318.3	325.7	328.2	325.7
35°	310.9	310.9	315.9	318.3	318.3
37.5°	301.1	301.1	306.0	308.5	318.3
40°	291.2	291.2	296.1	310.9	320.8
42.5°	278.8	278.8	286.2	308.5	320.8
45°	266.5	269.0	273.9	308.5	320.8
47.5°	254.2	256.6	269.0	306.0	315.9
50°	239.4	244.3	264.0	298.6	306.0
52.5°	227.0	229.5	256.6	286.2	286.2
55°	212.2	214.7	251.7	266.5	266.5
57.5°	197.4	199.9	239.4	244.3	244.3
60°	182.6	185.1	224.6	224.6	224.6
62.5°	165.3	170.3	202.3	204.8	204.8
65°	150.5	157.9	180.1	182.6	182.6
67.5°	133.3	145.6	160.4	162.9	162.9
70°	118.4	133.3	138.2	140.7	140.7
72.5°	101.2	116.0	118.4	120.9	120.9
75°	83.9	98.7	98.7	101.2	101.2
77.5°	66.6	79.0	81.4	81.4	81.4
80°	51.8	59.2	64.2	61.7	61.7
82.5°	37.0	46.9	46.9	46.9	44.4
85°	24.7	39.5	34.5	32.1	29.6
87.5°	14.8	34.5	19.7	17.3	17.3
90°	4.9	14.8	12.3	2.5	2.5
92.5°	9.9	24.7	12.3	9.9	7.4
95°	19.7	98.7	118.4	24.7	24.7
97.5°	37.0	165.3	254.2	301.1	323.3
100°	56.8	246.8	340.5	417.0	444.2
102.5°	81.4	298.6	419.5	515.7	555.2
105°	108.6	350.4	530.5	612.0	661.3
107.5°	135.7	389.9	616.9	708.2	742.8
110°	167.8	422.0	671.2	829.1	839.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	197.4	446.6	700.8	888.3	942.6
115°	224.6	473.8	745.2	922.9	979.7
117.5°	256.6	493.5	772.4	942.6	1004.3
120°	286.2	510.8	792.1	967.3	1011.7
122.5°	313.4	530.5	806.9	987.1	1036.4
125°	338.1	547.8	816.8	994.5	1043.8
127.5°	362.7	562.6	819.3	996.9	1048.7
130°	389.9	577.4	824.2	994.5	1046.3
132.5°	417.0	592.2	821.7	987.1	1033.9
135°	436.8	602.1	816.8	977.2	1019.1
137.5°	456.5	609.5	811.9	962.4	1001.9
140°	473.8	614.4	804.4	945.1	982.1
142.5°	493.5	616.9	799.5	927.8	959.9
145°	510.8	616.9	792.1	908.1	937.7
147.5°	528.1	614.4	782.2	888.3	913.0
150°	540.4	609.5	772.4	868.6	888.3
152.5°	550.3	604.6	760.0	846.4	866.1
155°	562.6	602.1	745.2	826.7	841.5
157.5°	572.5	602.1	728.0	804.4	819.3
160°	582.4	602.1	708.2	782.2	794.6
162.5°	594.7	602.1	681.1	750.2	762.5
165°	607.0	604.6	661.3	718.1	728.0
167.5°	614.4	604.6	641.6	678.6	688.5
170°	619.4	609.5	624.3	651.5	653.9
172.5°	621.8	614.4	612.0	624.3	624.3
175°	621.8	614.4	612.0	612.0	607.0
177.5°	621.8	616.9	616.9	614.4	607.0
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)