

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: P275028

Luminaire Tested: **J3-CL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275028
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4942.8 lumens
Efficiency: N/A
Efficacy: 136.2 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

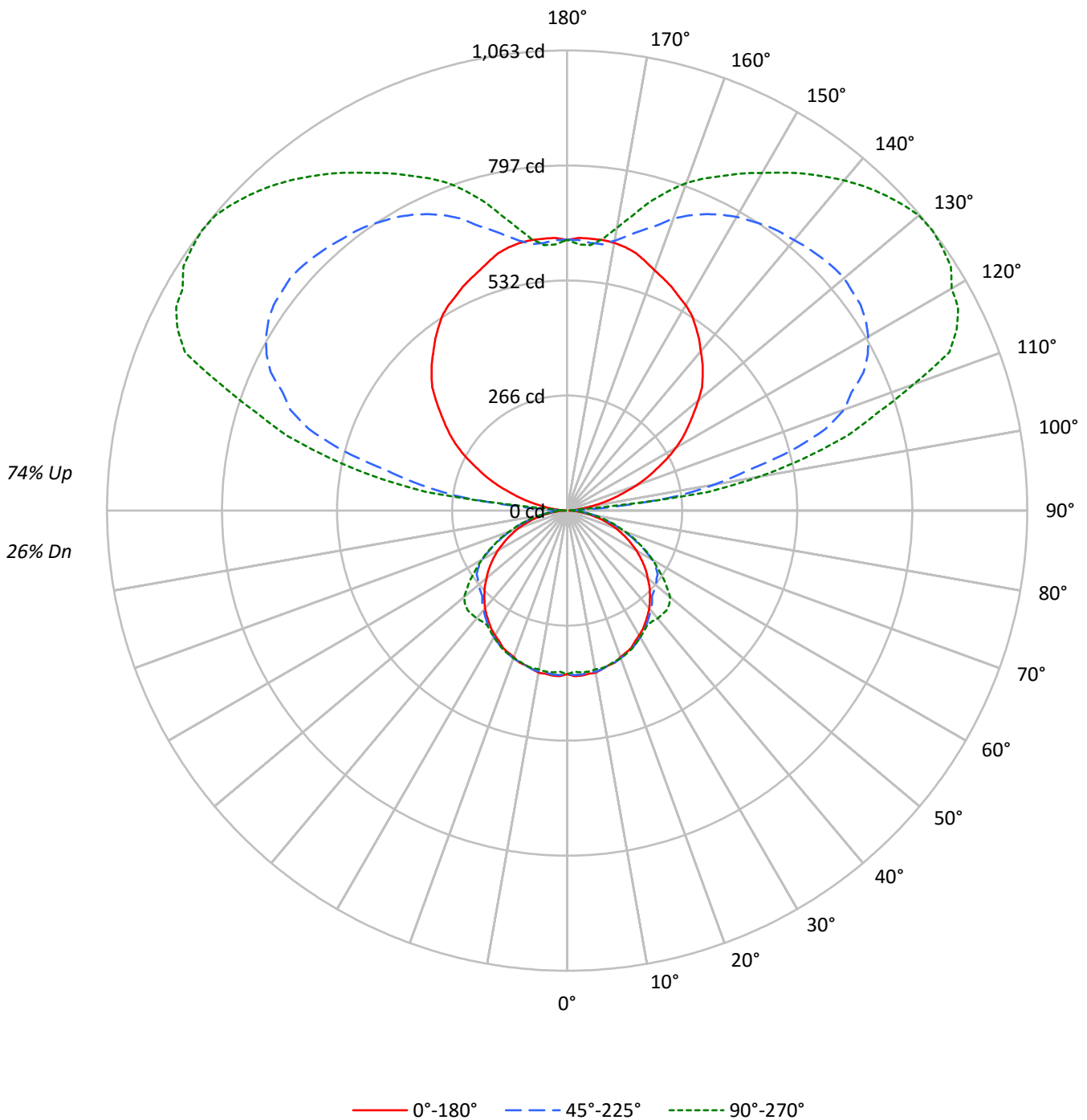
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3049	3049	3049
5°	3102	3081	3041
10°	3117	3096	3055
15°	3094	3094	3094
20°	3094	3116	3116
25°	3119	3142	3142
30°	3101	3148	3148
35°	3106	3156	3180
40°	3111	3164	3427
45°	3085	3170	3713
50°	3048	3362	3896
55°	3027	3592	3803
60°	2989	3675	3675
65°	2915	3488	3536
70°	2835	3307	3366
75°	2654	3122	3200
80°	2441	3022	2906
85°	2316	3242	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	0.7
10°-20°	104.5	2.1
20°-30°	161.6	3.3
30°-40°	200.4	4.1
40°-50°	224.3	4.5
50°-60°	219.1	4.4
60°-70°	172.9	3.5
70°-80°	104.6	2.1
80°-90°	37.2	0.8
90°-100°	128.4	2.6
100°-110°	496.5	10.0
110°-120°	682.3	13.8
120°-130°	690.3	14.0
130°-140°	611.8	12.4
140°-150°	483.9	9.8
150°-160°	337.9	6.8
160°-170°	191.2	3.9
170°-180°	59.9	1.2
0°-30°	302.1	6.1
0°-40°	502.5	10.2
0°-60°	945.9	19.1
0°-90°	1260.7	25.5
90°-120°	1307.2	26.4
90°-150°	3093.2	62.6
90°-180°	3682.0	74.5
0°-180°	4942.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	383	378	380	378	375	36
15°	370	368	370	370	370	105
25°	350	345	353	353	353	161
35°	315	315	320	323	323	197
45°	270	273	278	313	325	208
55°	215	218	255	270	270	192
65°	153	160	183	185	185	150
75°	85	100	100	103	103	90
85°	25	40	35	32	30	26
90°	5	15	12	2	2	5
95°	20	100	120	25	25	25
105°	110	355	538	620	670	117
115°	228	480	756	936	993	227
125°	343	555	828	1008	1058	307
135°	443	610	828	991	1033	341
145°	518	625	803	921	951	324
155°	570	610	756	838	853	263
165°	615	613	670	728	738	173
175°	630	623	620	620	615	60
180°	625	625	625	625	625	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.7	377.7	377.7	377.7	377.7
2.5°	382.8	377.7	380.2	377.7	372.7
5°	382.8	377.7	380.2	377.7	375.2
7.5°	380.2	377.7	377.7	375.2	375.2
10°	380.2	375.2	377.7	375.2	372.7
12.5°	375.2	372.7	375.2	372.7	372.7
15°	370.2	367.7	370.2	370.2	370.2
17.5°	367.7	362.7	367.7	367.7	365.2
20°	360.2	357.7	362.7	362.7	362.7
22.5°	355.2	352.7	357.7	357.7	357.7
25°	350.2	345.2	352.7	352.7	352.7
27.5°	340.2	340.2	345.2	347.7	345.2
30°	332.7	330.2	337.7	340.2	337.7
32.5°	325.2	322.7	330.2	332.7	330.2
35°	315.2	315.2	320.2	322.7	322.7
37.5°	305.2	305.2	310.2	312.7	322.7
40°	295.2	295.2	300.2	315.2	325.2
42.5°	282.7	282.7	290.2	312.7	325.2
45°	270.2	272.7	277.7	312.7	325.2
47.5°	257.7	260.2	272.7	310.2	320.2
50°	242.7	247.7	267.7	302.7	310.2
52.5°	230.2	232.7	260.2	290.2	290.2
55°	215.1	217.6	255.2	270.2	270.2
57.5°	200.1	202.6	242.7	247.7	247.7
60°	185.1	187.6	227.6	227.6	227.6
62.5°	167.6	172.6	205.1	207.6	207.6
65°	152.6	160.1	182.6	185.1	185.1
67.5°	135.1	147.6	162.6	165.1	165.1
70°	120.1	135.1	140.1	142.6	142.6
72.5°	102.6	117.6	120.1	122.6	122.6
75°	85.1	100.1	100.1	102.6	102.6
77.5°	67.5	80.1	82.6	82.6	82.6
80°	52.5	60.0	65.0	62.5	62.5
82.5°	37.5	47.5	47.5	47.5	45.0
85°	25.0	40.0	35.0	32.5	30.0
87.5°	15.0	35.0	20.0	17.5	17.5
90°	5.0	15.0	12.5	2.5	2.5
92.5°	10.0	25.0	12.5	10.0	7.5
95°	20.0	100.1	120.1	25.0	25.0
97.5°	37.5	167.6	257.7	305.2	327.7
100°	57.5	250.2	345.2	422.8	450.3
102.5°	82.6	302.7	425.3	522.8	562.9
105°	110.1	355.2	537.9	620.4	670.4
107.5°	137.6	395.3	625.4	718.0	753.0
110°	170.1	427.8	680.4	840.6	850.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.1	452.8	710.5	900.6	955.6
115°	227.6	480.3	755.5	935.6	993.2
117.5°	260.2	500.3	783.0	955.6	1018.2
120°	290.2	517.8	803.0	980.6	1025.7
122.5°	317.7	537.9	818.0	1000.7	1050.7
125°	342.7	555.4	828.0	1008.2	1058.2
127.5°	367.7	570.4	830.5	1010.7	1063.2
130°	395.3	585.4	835.5	1008.2	1060.7
132.5°	422.8	600.4	833.0	1000.7	1048.2
135°	442.8	610.4	828.0	990.6	1033.2
137.5°	462.8	617.9	823.0	975.6	1015.7
140°	480.3	622.9	815.5	958.1	995.7
142.5°	500.3	625.4	810.5	940.6	973.1
145°	517.8	625.4	803.0	920.6	950.6
147.5°	535.4	622.9	793.0	900.6	925.6
150°	547.9	617.9	783.0	880.6	900.6
152.5°	557.9	612.9	770.5	858.1	878.1
155°	570.4	610.4	755.5	838.0	853.1
157.5°	580.4	610.4	738.0	815.5	830.5
160°	590.4	610.4	718.0	793.0	805.5
162.5°	602.9	610.4	690.5	760.5	773.0
165°	615.4	612.9	670.4	728.0	738.0
167.5°	622.9	612.9	650.4	688.0	698.0
170°	627.9	617.9	632.9	660.4	662.9
172.5°	630.4	622.9	620.4	632.9	632.9
175°	630.4	622.9	620.4	620.4	615.4
177.5°	630.4	625.4	625.4	622.9	615.4
180°	625.4	625.4	625.4	625.4	625.4

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