

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: P275220

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-50L82765-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN 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: 5160.9 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

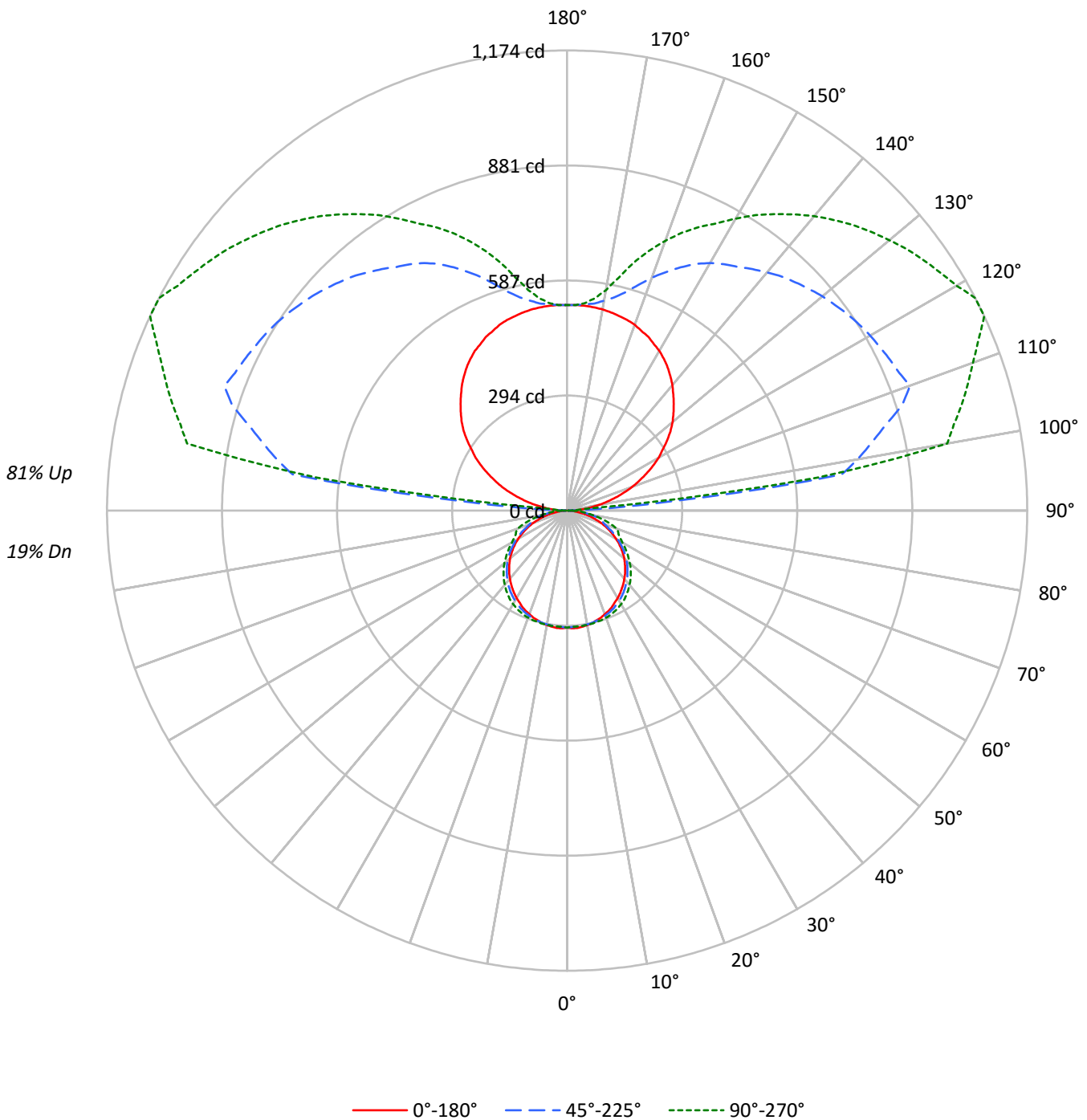
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10				
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8				
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7				
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2411	2411	2411
5°	2436	2410	2404
10°	2432	2417	2427
15°	2420	2431	2458
20°	2416	2449	2499
25°	2413	2465	2533
30°	2404	2477	2567
35°	2396	2485	2593
40°	2391	2486	2609
45°	2391	2487	2620
50°	2388	2484	2622
55°	2366	2474	2621
60°	2328	2432	2620
65°	2260	2409	2766
70°	2167	2410	3144
75°	1996	2764	3166
80°	1743	2794	3096
85°	1380	3177	3529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	0.6
10°-20°	82.6	1.6
20°-30°	128.0	2.5
30°-40°	158.4	3.1
40°-50°	168.9	3.3
50°-60°	157.4	3.0
60°-70°	128.2	2.5
70°-80°	88.2	1.7
80°-90°	34.7	0.7
90°-100°	304.4	5.9
100°-110°	779.4	15.1
110°-120°	806.6	15.6
120°-130°	718.5	13.9
130°-140°	598.4	11.6
140°-150°	455.5	8.8
150°-160°	306.4	5.9
160°-170°	166.0	3.2
170°-180°	50.9	1.0
0°-30°	239.0	4.6
0°-40°	397.4	7.7
0°-60°	723.6	14.0
0°-90°	974.7	18.9
90°-120°	1890.3	36.6
90°-150°	3662.8	71.0
90°-180°	4186.0	81.1
0°-180°	5160.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	301	299	297	298	297	29
15°	290	292	291	294	294	82
25°	271	273	277	282	284	125
35°	243	247	252	260	263	152
45°	209	213	218	226	230	161
55°	168	171	176	182	186	150
65°	118	121	126	138	145	117
75°	64	68	89	99	102	68
85°	15	27	34	38	38	17
90°	2	3	3	3	3	5
95°	43	339	250	42	42	42
105°	128	538	840	988	1042	135
115°	223	556	910	1124	1174	221
125°	311	568	873	1051	1112	278
135°	385	584	824	978	1030	297
145°	447	573	759	882	923	279
155°	489	544	685	772	798	225
165°	514	528	577	633	654	145
175°	524	525	528	530	531	50
180°	524	524	524	524	524	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	298.7	298.7	298.7	298.7	298.7
2.5°	300.6	299.9	297.4	298.0	296.7
5°	300.6	299.3	297.4	298.0	296.7
7.5°	298.7	298.0	296.1	297.4	296.7
10°	296.7	296.1	294.8	296.7	296.1
12.5°	294.1	294.1	293.5	295.4	295.4
15°	289.6	291.5	290.9	294.1	294.1
17.5°	286.4	287.7	288.3	292.2	292.8
20°	281.2	283.8	285.1	289.0	290.9
22.5°	276.7	279.3	281.2	286.4	288.3
25°	270.9	273.4	276.7	282.5	284.4
27.5°	263.7	268.3	271.5	278.6	280.6
30°	257.9	261.2	265.7	272.8	275.4
32.5°	250.8	254.7	259.2	267.0	270.2
35°	243.1	246.9	252.1	260.5	263.1
37.5°	235.3	238.5	244.4	252.8	256.0
40°	226.9	230.1	235.9	245.0	247.6
42.5°	218.5	221.7	227.5	235.9	239.2
45°	209.4	212.7	217.8	225.6	229.5
47.5°	199.7	203.0	208.2	215.9	219.8
50°	190.1	192.6	197.8	204.9	208.8
52.5°	179.1	181.6	186.8	193.3	197.2
55°	168.1	170.7	175.8	181.6	186.2
57.5°	156.4	159.0	162.9	169.4	174.5
60°	144.2	146.7	150.6	157.7	162.3
62.5°	131.2	133.8	138.3	146.1	153.2
65°	118.3	120.9	126.1	137.7	144.8
67.5°	105.4	108.0	112.5	129.3	140.9
70°	91.8	94.4	102.1	125.4	133.2
72.5°	77.6	81.5	94.4	115.7	118.9
75°	64.0	67.9	88.6	98.9	101.5
77.5°	49.8	55.6	76.9	81.5	82.7
80°	37.5	45.9	60.1	65.9	66.6
82.5°	25.2	39.4	46.5	50.4	50.4
85°	14.9	27.2	34.3	38.1	38.1
87.5°	8.4	18.1	25.2	29.7	29.1
90°	1.9	3.2	3.2	2.6	2.6
92.5°	23.3	63.4	20.7	19.4	19.4
95°	43.3	338.7	249.5	42.0	42.0
97.5°	60.1	411.8	706.6	855.2	643.2
100°	82.1	493.9	751.8	926.3	984.5
102.5°	103.4	524.3	794.5	952.2	1010.4
105°	128.0	537.8	840.4	988.4	1042.1
107.5°	151.9	545.6	896.6	1020.1	1071.8
110°	176.5	549.5	930.2	1056.9	1101.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	199.1	552.7	917.3	1099.6	1135.8
115°	223.0	555.9	909.5	1124.1	1173.9
117.5°	246.3	557.9	900.5	1098.9	1173.9
120°	269.6	561.1	892.7	1082.1	1147.4
122.5°	289.0	565.0	883.7	1067.3	1129.3
125°	310.9	568.2	873.3	1051.1	1111.9
127.5°	332.3	571.4	861.7	1034.3	1094.4
130°	351.0	578.6	850.1	1017.5	1073.1
132.5°	367.8	582.4	837.1	997.4	1052.4
135°	384.6	583.7	823.6	978.1	1030.4
137.5°	400.8	583.1	810.0	956.1	1005.9
140°	417.6	581.1	793.2	933.4	980.6
142.5°	432.5	577.3	776.4	908.2	952.2
145°	446.7	572.7	758.9	881.7	923.1
147.5°	459.0	565.6	745.3	853.3	893.4
150°	470.6	557.9	729.2	824.2	859.8
152.5°	479.0	550.8	709.1	796.4	826.1
155°	489.4	544.3	684.6	771.8	798.3
157.5°	495.8	539.1	658.7	741.5	767.3
160°	504.2	535.2	632.2	708.5	732.4
162.5°	510.0	531.4	603.1	671.6	694.9
165°	513.9	528.1	576.6	632.9	654.2
167.5°	517.8	526.8	557.2	592.1	608.9
170°	521.0	525.6	543.7	561.8	570.8
172.5°	523.0	524.9	532.7	542.4	546.9
175°	524.3	524.9	528.1	530.1	531.4
177.5°	524.9	524.9	524.9	524.3	524.9
180°	524.3	524.3	524.3	524.3	524.3

(END OF REPORT)