

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: P253588

Luminaire Tested: **J3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253588
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-50L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.8 lumens
Efficiency: N/A
Efficacy: 145.3 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

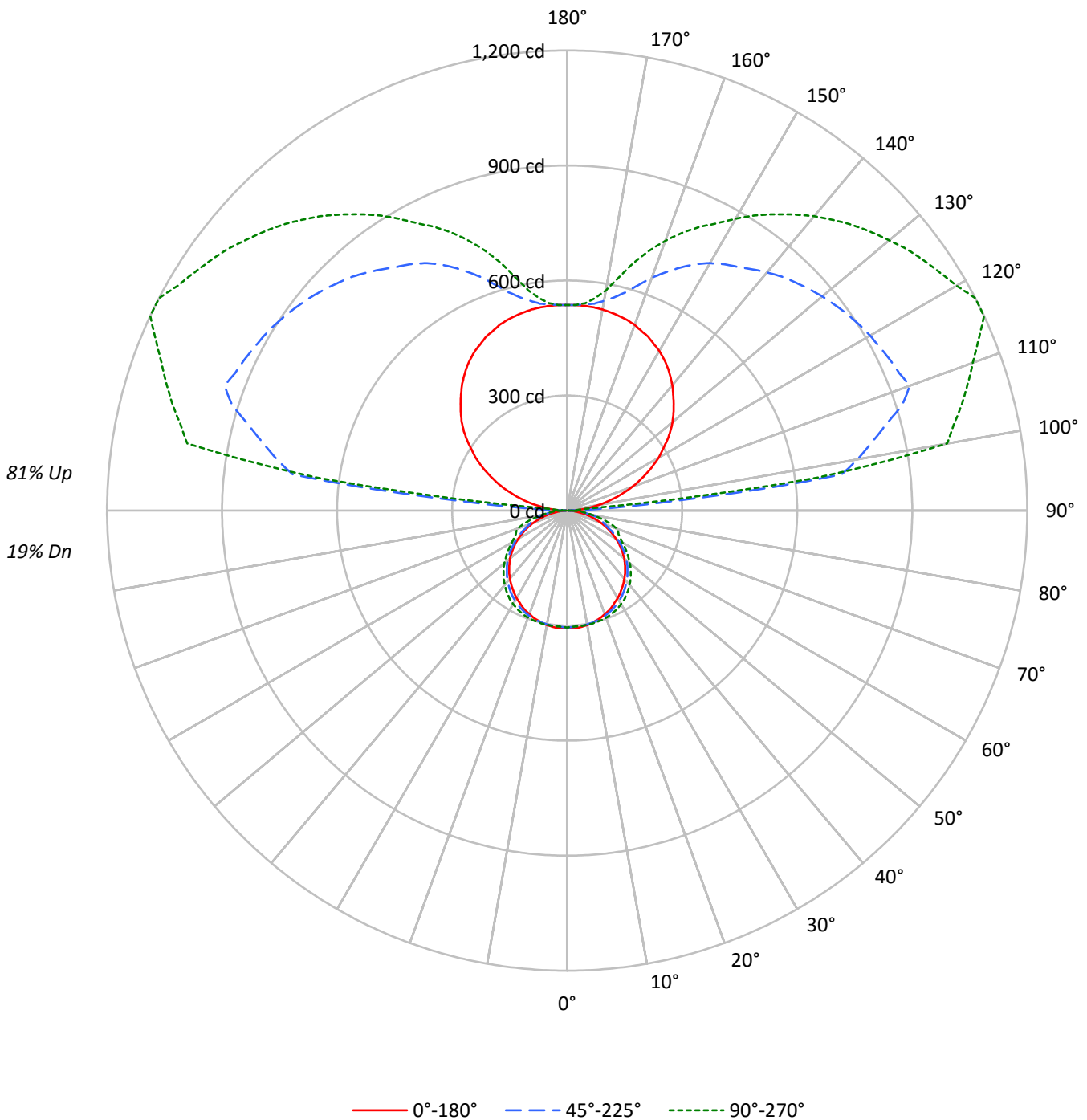
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2464	2464	2464
5°	2489	2463	2457
10°	2485	2469	2480
15°	2473	2485	2512
20°	2468	2503	2554
25°	2466	2518	2589
30°	2457	2531	2623
35°	2448	2539	2650
40°	2444	2541	2666
45°	2443	2541	2677
50°	2439	2538	2680
55°	2417	2529	2677
60°	2378	2485	2677
65°	2309	2460	2827
70°	2214	2464	3212
75°	2040	2823	3235
80°	1781	2855	3161
85°	1408	3242	3612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.6
10°-20°	84.4	1.6
20°-30°	130.8	2.5
30°-40°	161.8	3.1
40°-50°	172.6	3.3
50°-60°	160.8	3.0
60°-70°	131.0	2.5
70°-80°	90.1	1.7
80°-90°	35.5	0.7
90°-100°	311.1	5.9
100°-110°	796.4	15.1
110°-120°	824.2	15.6
120°-130°	734.2	13.9
130°-140°	611.5	11.6
140°-150°	465.5	8.8
150°-160°	313.1	5.9
160°-170°	169.7	3.2
170°-180°	52.0	1.0
0°-30°	244.2	4.6
0°-40°	406.0	7.7
0°-60°	739.4	14.0
0°-90°	996.0	18.9
90°-120°	1931.7	36.6
90°-150°	3742.9	71.0
90°-180°	4278.0	81.1
0°-180°	5273.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	307	306	304	304	303	29
15°	296	298	297	301	301	84
25°	277	279	283	289	291	127
35°	248	252	258	266	269	156
45°	214	217	223	230	234	165
55°	172	174	180	186	190	153
65°	121	124	129	141	148	120
75°	65	69	90	101	104	69
85°	15	28	35	39	39	18
90°	2	3	3	3	3	5
95°	44	346	255	43	43	43
105°	131	550	859	1010	1065	138
115°	228	568	929	1149	1200	225
125°	318	581	892	1074	1136	284
135°	393	596	842	999	1053	303
145°	456	585	776	901	943	285
155°	500	556	700	789	816	230
165°	525	540	589	647	668	149
175°	536	536	540	542	543	51
180°	536	536	536	536	536	



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CATALOG NUMBER: J3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.2	305.2	305.2	305.2	305.2
2.5°	307.2	306.5	303.9	304.5	303.2
5°	307.2	305.8	303.9	304.5	303.2
7.5°	305.2	304.5	302.5	303.9	303.2
10°	303.2	302.5	301.2	303.2	302.5
12.5°	300.6	300.6	299.9	301.9	301.9
15°	295.9	297.9	297.3	300.6	300.6
17.5°	292.6	294.0	294.6	298.6	299.2
20°	287.3	290.0	291.3	295.3	297.3
22.5°	282.7	285.4	287.3	292.6	294.6
25°	276.8	279.4	282.7	288.7	290.7
27.5°	269.5	274.1	277.4	284.7	286.7
30°	263.6	266.9	271.5	278.8	281.4
32.5°	256.3	260.3	264.9	272.8	276.1
35°	248.4	252.3	257.6	266.2	268.9
37.5°	240.4	243.8	249.7	258.3	261.6
40°	231.9	235.2	241.1	250.4	253.0
42.5°	223.3	226.6	232.5	241.1	244.4
45°	214.0	217.3	222.6	230.5	234.5
47.5°	204.1	207.4	212.7	220.6	224.6
50°	194.2	196.9	202.1	209.4	213.4
52.5°	183.0	185.6	190.9	197.5	201.5
55°	171.7	174.4	179.7	185.6	190.2
57.5°	159.9	162.5	166.5	173.1	178.4
60°	147.3	149.9	153.9	161.2	165.8
62.5°	134.1	136.7	141.4	149.3	156.6
65°	120.9	123.5	128.8	140.7	148.0
67.5°	107.7	110.3	114.9	132.1	144.0
70°	93.8	96.4	104.4	128.2	136.1
72.5°	79.3	83.2	96.4	118.2	121.5
75°	65.4	69.4	90.5	101.1	103.7
77.5°	50.9	56.8	78.6	83.2	84.6
80°	38.3	46.9	61.4	67.4	68.0
82.5°	25.8	40.3	47.6	51.5	51.5
85°	15.2	27.7	35.0	39.0	39.0
87.5°	8.6	18.5	25.8	30.4	29.7
90°	2.0	3.3	3.3	2.6	2.6
92.5°	23.8	64.7	21.1	19.8	19.8
95°	44.3	346.1	255.0	42.9	42.9
97.5°	61.4	420.8	722.0	873.9	657.3
100°	83.9	504.7	768.2	946.6	1006.1
102.5°	105.7	535.7	811.8	973.0	1032.5
105°	130.8	549.6	858.7	1010.0	1064.8
107.5°	155.2	557.5	916.2	1042.4	1095.2
110°	180.3	561.5	950.6	1080.0	1125.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	203.5	564.8	937.4	1123.6	1160.6
115°	227.9	568.1	929.4	1148.7	1199.6
117.5°	251.7	570.1	920.2	1123.0	1199.6
120°	275.5	573.4	912.2	1105.8	1172.5
122.5°	295.3	577.3	903.0	1090.6	1154.0
125°	317.7	580.6	892.4	1074.1	1136.2
127.5°	339.5	583.9	880.5	1056.9	1118.3
130°	358.7	591.2	868.7	1039.7	1096.5
132.5°	375.9	595.2	855.4	1019.3	1075.4
135°	393.0	596.5	841.6	999.4	1053.0
137.5°	409.6	595.8	827.7	977.0	1027.8
140°	426.7	593.9	810.5	953.9	1002.1
142.5°	441.9	589.9	793.3	928.1	973.0
145°	456.5	585.3	775.5	901.0	943.3
147.5°	469.0	578.0	761.6	872.0	912.9
150°	480.9	570.1	745.1	842.2	878.6
152.5°	489.5	562.8	724.6	813.8	844.2
155°	500.1	556.2	699.5	788.7	815.8
157.5°	506.7	550.9	673.1	757.7	784.1
160°	515.2	547.0	646.0	724.0	748.4
162.5°	521.2	543.0	616.3	686.3	710.1
165°	525.2	539.7	589.2	646.7	668.5
167.5°	529.1	538.4	569.4	605.1	622.3
170°	532.4	537.0	555.5	574.0	583.3
172.5°	534.4	536.4	544.3	554.2	558.8
175°	535.7	536.4	539.7	541.7	543.0
177.5°	536.4	536.4	536.4	535.7	536.4
180°	535.7	535.7	535.7	535.7	535.7

(END OF REPORT)