

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: P253589

Luminaire Tested: **J3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253589
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5319.8 lumens
Efficiency: N/A
Efficacy: 143.0 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

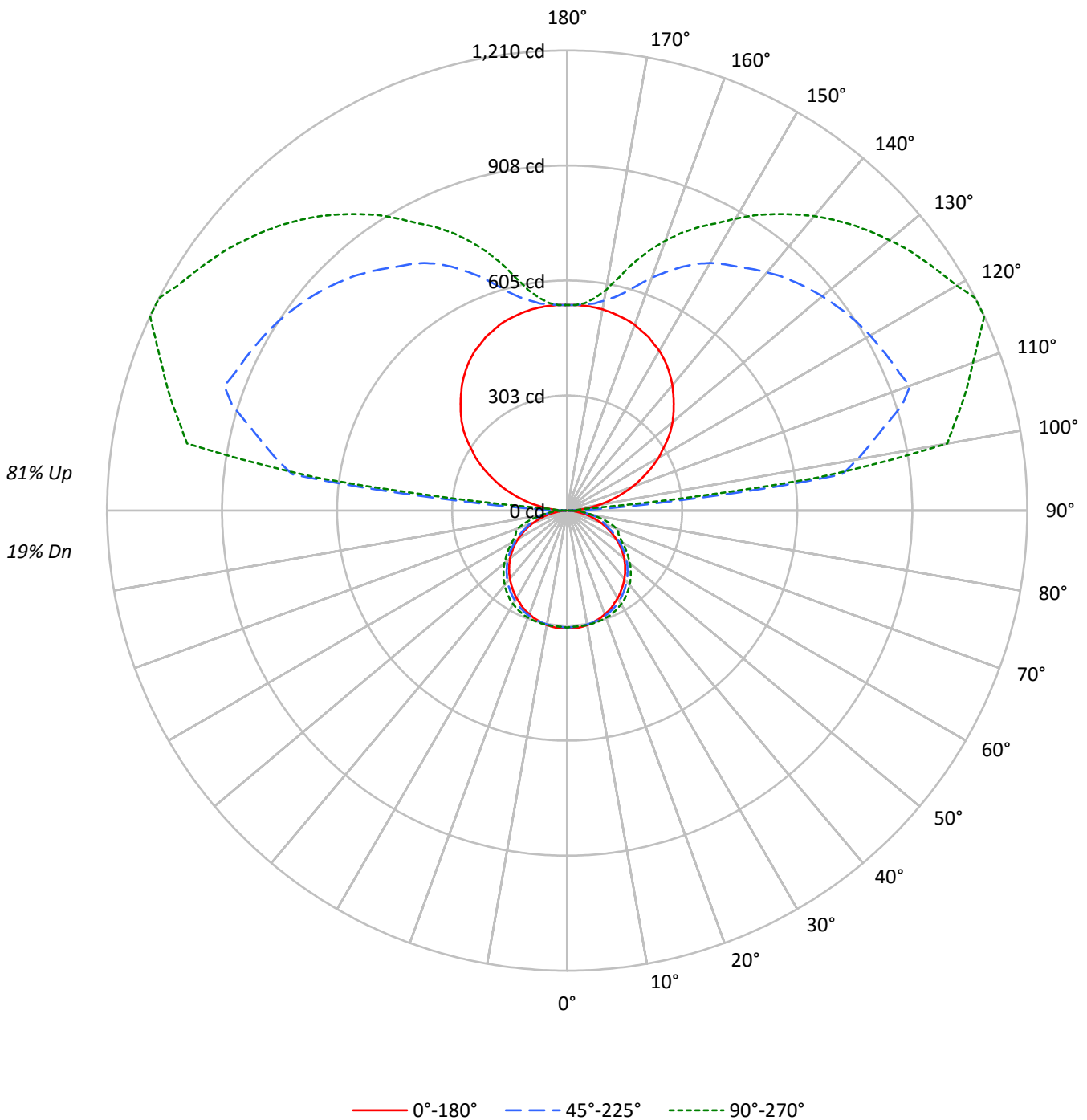
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2485	2485	2485
5°	2511	2484	2478
10°	2507	2490	2502
15°	2495	2506	2534
20°	2491	2525	2576
25°	2487	2540	2612
30°	2479	2553	2646
35°	2469	2561	2673
40°	2465	2563	2689
45°	2465	2564	2700
50°	2460	2561	2703
55°	2438	2550	2701
60°	2399	2507	2700
65°	2329	2481	2852
70°	2233	2485	3241
75°	2059	2848	3263
80°	1795	2882	3189
85°	1417	3270	3640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	0.6
10°-20°	85.1	1.6
20°-30°	132.0	2.5
30°-40°	163.2	3.1
40°-50°	174.1	3.3
50°-60°	162.2	3.0
60°-70°	132.1	2.5
70°-80°	90.9	1.7
80°-90°	35.8	0.7
90°-100°	313.8	5.9
100°-110°	803.3	15.1
110°-120°	831.4	15.6
120°-130°	740.7	13.9
130°-140°	616.8	11.6
140°-150°	469.6	8.8
150°-160°	315.9	5.9
160°-170°	171.1	3.2
170°-180°	52.5	1.0
0°-30°	246.4	4.6
0°-40°	409.6	7.7
0°-60°	745.9	14.0
0°-90°	1004.7	18.9
90°-120°	1948.5	36.6
90°-150°	3775.6	71.0
90°-180°	4315.0	81.1
0°-180°	5319.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	308	308	308	308	308	
5°	310	308	306	307	306	29
15°	298	300	300	303	303	84
25°	279	282	285	291	293	129
35°	250	254	260	268	271	157
45°	216	219	225	232	236	166
55°	173	176	181	187	192	155
65°	122	125	130	142	149	121
75°	66	70	91	102	105	70
85°	15	28	35	39	39	18
90°	2	3	3	3	3	5
95°	45	349	257	43	43	44
105°	132	554	866	1019	1074	139
115°	230	573	938	1159	1210	227
125°	320	586	900	1083	1146	286
135°	396	602	849	1008	1062	306
145°	460	590	782	909	952	288
155°	504	561	706	796	823	232
165°	530	544	594	652	674	150
175°	540	541	544	546	548	51
180°	540	540	540	540	540	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	307.8	307.8	307.8	307.8	307.8
2.5°	309.8	309.2	306.5	307.2	305.8
5°	309.8	308.5	306.5	307.2	305.8
7.5°	307.8	307.2	305.2	306.5	305.8
10°	305.8	305.2	303.8	305.8	305.2
12.5°	303.2	303.2	302.5	304.5	304.5
15°	298.5	300.5	299.8	303.2	303.2
17.5°	295.2	296.5	297.2	301.2	301.8
20°	289.9	292.5	293.9	297.8	299.8
22.5°	285.2	287.9	289.9	295.2	297.2
25°	279.2	281.9	285.2	291.2	293.2
27.5°	271.9	276.5	279.9	287.2	289.2
30°	265.9	269.2	273.9	281.2	283.9
32.5°	258.5	262.5	267.2	275.2	278.5
35°	250.5	254.5	259.9	268.5	271.2
37.5°	242.5	245.9	251.9	260.5	263.9
40°	233.9	237.2	243.2	252.5	255.2
42.5°	225.2	228.6	234.5	243.2	246.5
45°	215.9	219.2	224.6	232.5	236.5
47.5°	205.9	209.2	214.6	222.6	226.6
50°	195.9	198.6	203.9	211.2	215.2
52.5°	184.6	187.2	192.6	199.2	203.2
55°	173.2	175.9	181.2	187.2	191.9
57.5°	161.3	163.9	167.9	174.6	179.9
60°	148.6	151.3	155.3	162.6	167.2
62.5°	135.3	137.9	142.6	150.6	157.9
65°	121.9	124.6	129.9	141.9	149.3
67.5°	108.6	111.3	115.9	133.3	145.3
70°	94.6	97.3	105.3	129.3	137.3
72.5°	80.0	84.0	97.3	119.3	122.6
75°	66.0	70.0	91.3	101.9	104.6
77.5°	51.3	57.3	79.3	84.0	85.3
80°	38.6	47.3	62.0	68.0	68.6
82.5°	26.0	40.6	48.0	52.0	52.0
85°	15.3	28.0	35.3	39.3	39.3
87.5°	8.7	18.7	26.0	30.7	30.0
90°	2.0	3.3	3.3	2.7	2.7
92.5°	24.0	65.3	21.3	20.0	20.0
95°	44.6	349.2	257.2	43.3	43.3
97.5°	62.0	424.5	728.3	881.6	663.0
100°	84.6	509.1	774.9	954.8	1014.8
102.5°	106.6	540.4	818.9	981.5	1041.5
105°	131.9	554.4	866.2	1018.8	1074.1
107.5°	156.6	562.4	924.2	1051.5	1104.8
110°	181.9	566.4	958.8	1089.4	1135.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.2	569.7	945.5	1133.4	1170.7
115°	229.9	573.0	937.5	1158.7	1210.0
117.5°	253.9	575.0	928.2	1132.8	1210.0
120°	277.9	578.4	920.2	1115.4	1182.7
122.5°	297.8	582.4	910.9	1100.1	1164.1
125°	320.5	585.7	900.2	1083.4	1146.1
127.5°	342.5	589.0	888.2	1066.1	1128.1
130°	361.8	596.4	876.2	1048.8	1106.1
132.5°	379.1	600.4	862.9	1028.1	1084.8
135°	396.5	601.7	848.9	1008.2	1062.1
137.5°	413.1	601.0	834.9	985.5	1036.8
140°	430.4	599.0	817.6	962.2	1010.8
142.5°	445.8	595.0	800.3	936.2	981.5
145°	460.4	590.4	782.3	908.9	951.5
147.5°	473.1	583.0	768.3	879.6	920.9
150°	485.1	575.0	751.6	849.6	886.2
152.5°	493.7	567.7	731.0	820.9	851.6
155°	504.4	561.0	705.6	795.6	822.9
157.5°	511.1	555.7	679.0	764.3	790.9
160°	519.7	551.7	651.7	730.3	754.9
162.5°	525.7	547.7	621.7	692.3	716.3
165°	529.7	544.4	594.4	652.3	674.3
167.5°	533.7	543.1	574.4	610.4	627.7
170°	537.1	541.7	560.4	579.0	588.4
172.5°	539.1	541.1	549.1	559.0	563.7
175°	540.4	541.1	544.4	546.4	547.7
177.5°	541.1	541.1	541.1	540.4	541.1
180°	540.4	540.4	540.4	540.4	540.4

(END OF REPORT)