

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: P253416

Luminaire Tested: **J2-WL-30L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-30L83050-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

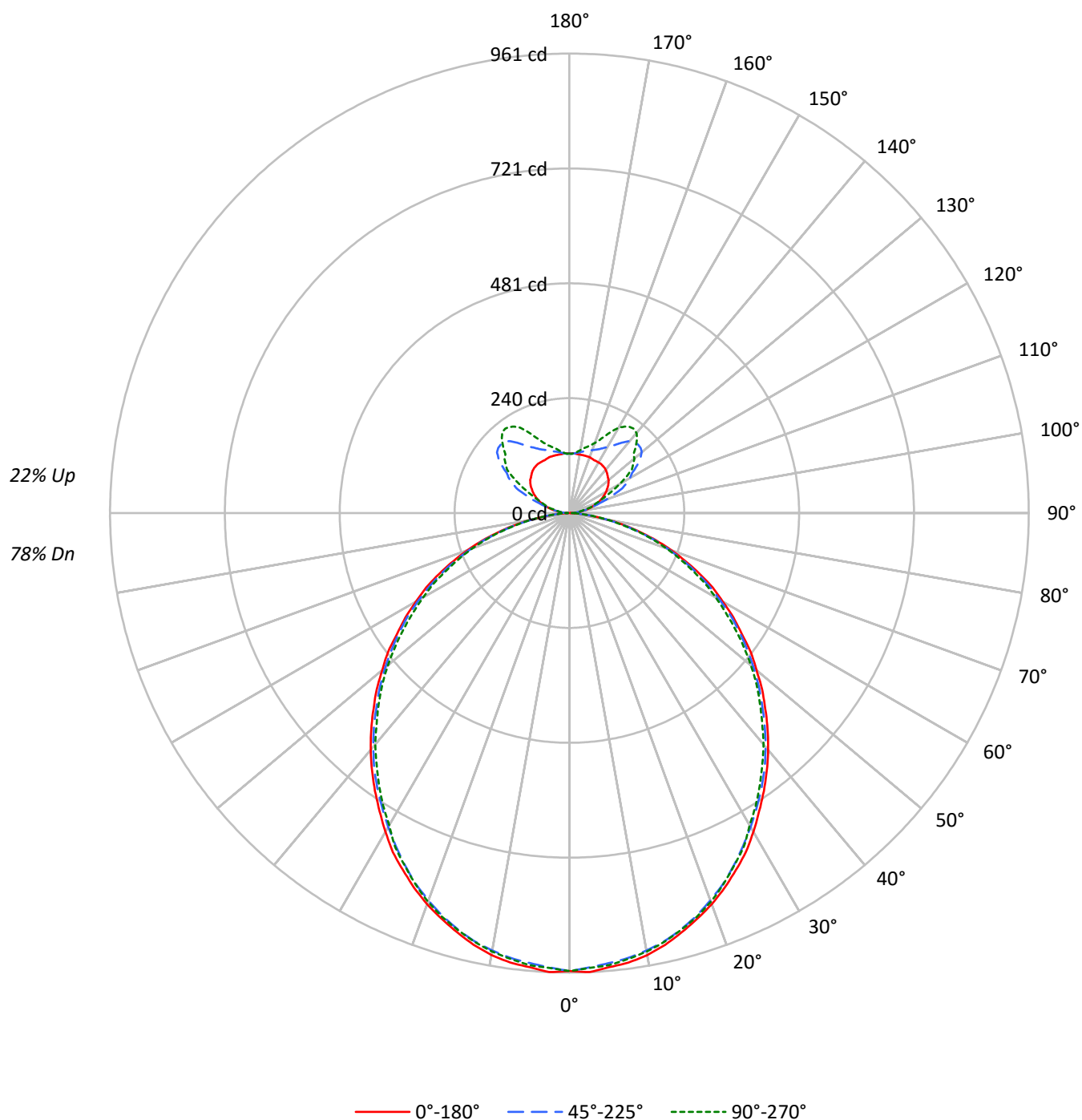
Input Watts (W): 27.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	100	96	92	99	95	92	89	87	84	82	80	77	75	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	46	43	40		
5	73	61	52	46	69	58	50	45	54	47	42	50	44	40	46	41	37	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	41	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7731	7731	7731
5°	7726	7657	7692
10°	7694	7615	7633
15°	7587	7534	7543
20°	7479	7406	7434
25°	7339	7244	7253
30°	7176	7067	7027
35°	6989	6906	6843
40°	6814	6725	6657
45°	6618	6509	6437
50°	6414	6321	6227
55°	6187	6111	5962
60°	5982	5863	5709
65°	5740	5597	5415
70°	5363	5188	5087
75°	4769	4604	4570
80°	3849	3752	3752
85°	2362	2556	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	2.9
10°-20°	255.1	8.1
20°-30°	376.1	11.9
30°-40°	439.1	13.9
40°-50°	441.0	14.0
50°-60°	388.0	12.3
60°-70°	289.0	9.2
70°-80°	158.1	5.0
80°-90°	36.0	1.1
90°-100°	18.3	0.6
100°-110°	57.8	1.8
110°-120°	108.6	3.4
120°-130°	136.8	4.3
130°-140°	134.7	4.3
140°-150°	108.9	3.4
150°-160°	69.9	2.2
160°-170°	38.2	1.2
170°-180°	12.1	0.4
0°-30°	721.4	22.8
0°-40°	1160.5	36.7
0°-60°	1989.4	63.0
0°-90°	2472.5	78.3
90°-120°	184.8	5.9
90°-150°	565.2	17.9
90°-180°	686.0	21.7
0°-180°	3158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	953	951	945	952	949	91
15°	908	909	901	906	902	256
25°	824	819	813	815	814	380
35°	709	708	701	696	694	444
45°	580	579	570	564	564	448
55°	440	442	434	427	424	395
65°	300	298	293	286	284	297
75°	153	151	148	148	146	162
85°	26	26	28	29	28	33
90°	1	2	3	4	3	2
95°	17	16	16	17	18	17
105°	48	76	50	49	46	51
115°	76	152	121	91	85	76
125°	99	157	172	159	159	88
135°	112	140	203	204	196	87
145°	121	136	176	212	220	76
155°	122	133	148	169	178	57
165°	124	127	134	140	143	35
175°	125	125	125	127	126	12
180°	124	124	124	124	124	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.7	957.7	957.7	957.7	957.7
2.5°	960.9	955.6	951.3	956.6	952.4
5°	953.4	951.3	944.9	952.4	949.2
7.5°	948.1	944.9	938.6	944.9	940.7
10°	938.6	936.4	929.0	933.3	931.1
12.5°	924.8	924.8	917.3	921.6	918.4
15°	907.8	908.8	901.4	905.7	902.5
17.5°	889.7	890.8	883.4	887.6	885.5
20°	870.6	867.4	862.1	865.3	865.3
22.5°	848.3	844.1	839.8	839.8	840.9
25°	823.9	818.6	813.3	815.4	814.3
27.5°	799.5	793.1	785.7	788.9	788.9
30°	769.8	765.5	758.1	760.2	753.8
32.5°	739.0	736.8	729.4	728.3	725.2
35°	709.2	708.2	700.7	696.5	694.4
37.5°	678.4	678.4	671.0	666.8	662.5
40°	646.6	644.5	638.1	632.8	631.7
42.5°	613.7	612.6	605.2	598.8	596.7
45°	579.7	578.6	570.1	563.8	563.8
47.5°	546.8	543.6	537.2	529.8	530.9
50°	510.7	510.7	503.3	496.9	495.8
52.5°	478.8	475.7	468.2	464.0	459.7
55°	439.6	441.7	434.2	426.8	423.6
57.5°	406.6	406.6	400.3	391.8	387.5
60°	370.5	370.5	363.1	357.8	353.6
62.5°	337.6	335.5	328.1	321.7	320.6
65°	300.5	298.3	293.0	285.6	283.5
67.5°	262.2	261.2	254.8	250.6	249.5
70°	227.2	224.0	219.8	216.6	215.5
72.5°	190.0	186.9	184.7	181.6	181.6
75°	152.9	150.8	147.6	147.6	146.5
77.5°	117.9	115.7	115.7	113.6	111.5
80°	82.8	83.9	80.7	80.7	80.7
82.5°	52.0	53.1	51.0	51.0	51.0
85°	25.5	26.5	27.6	28.7	27.6
87.5°	7.4	9.6	11.7	12.7	11.7
90°	1.1	2.1	3.2	4.2	3.2
92.5°	8.5	9.6	11.7	12.7	12.7
95°	17.0	15.9	15.9	17.0	18.0
97.5°	24.4	25.5	20.2	21.2	21.2
100°	32.9	40.3	30.8	25.5	25.5
102.5°	40.3	58.4	40.3	35.0	31.9
105°	47.8	76.4	49.9	48.8	45.7
107.5°	55.2	93.4	63.7	52.0	52.0
110°	63.7	113.6	80.7	63.7	59.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.1	135.9	99.8	75.4	71.1
115°	76.4	151.8	121.0	91.3	84.9
117.5°	82.8	159.3	134.8	111.5	101.9
120°	88.1	162.4	146.5	131.7	121.0
122.5°	93.4	161.4	155.0	149.7	141.2
125°	98.7	157.1	172.0	159.3	159.3
127.5°	103.0	150.8	186.9	168.8	167.8
130°	107.2	145.5	197.5	174.1	177.3
132.5°	109.4	142.3	201.7	189.0	181.6
135°	112.5	140.1	202.8	203.9	196.4
137.5°	115.7	140.1	200.7	213.4	209.2
140°	117.9	139.1	196.4	217.7	218.7
142.5°	120.0	137.0	186.9	216.6	221.9
145°	121.0	135.9	176.2	212.3	219.8
147.5°	122.1	134.8	166.7	204.9	214.5
150°	122.1	133.8	159.3	194.3	206.0
152.5°	122.1	132.7	152.9	180.5	193.2
155°	122.1	132.7	147.6	168.8	178.4
157.5°	123.2	130.6	143.3	159.3	165.6
160°	124.2	129.5	140.1	151.8	156.1
162.5°	124.2	128.5	137.0	145.5	148.6
165°	124.2	127.4	133.8	140.1	143.3
167.5°	124.2	127.4	131.7	137.0	139.1
170°	124.2	126.3	129.5	132.7	133.8
172.5°	124.2	126.3	127.4	129.5	129.5
175°	125.3	125.3	125.3	127.4	126.3
177.5°	125.3	125.3	124.2	125.3	124.2
180°	124.2	124.2	124.2	124.2	124.2

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