

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: P253414

Luminaire Tested: **J2-WL-30L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253414
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130.7 lumens
Efficiency: N/A
Efficacy: 118.6 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

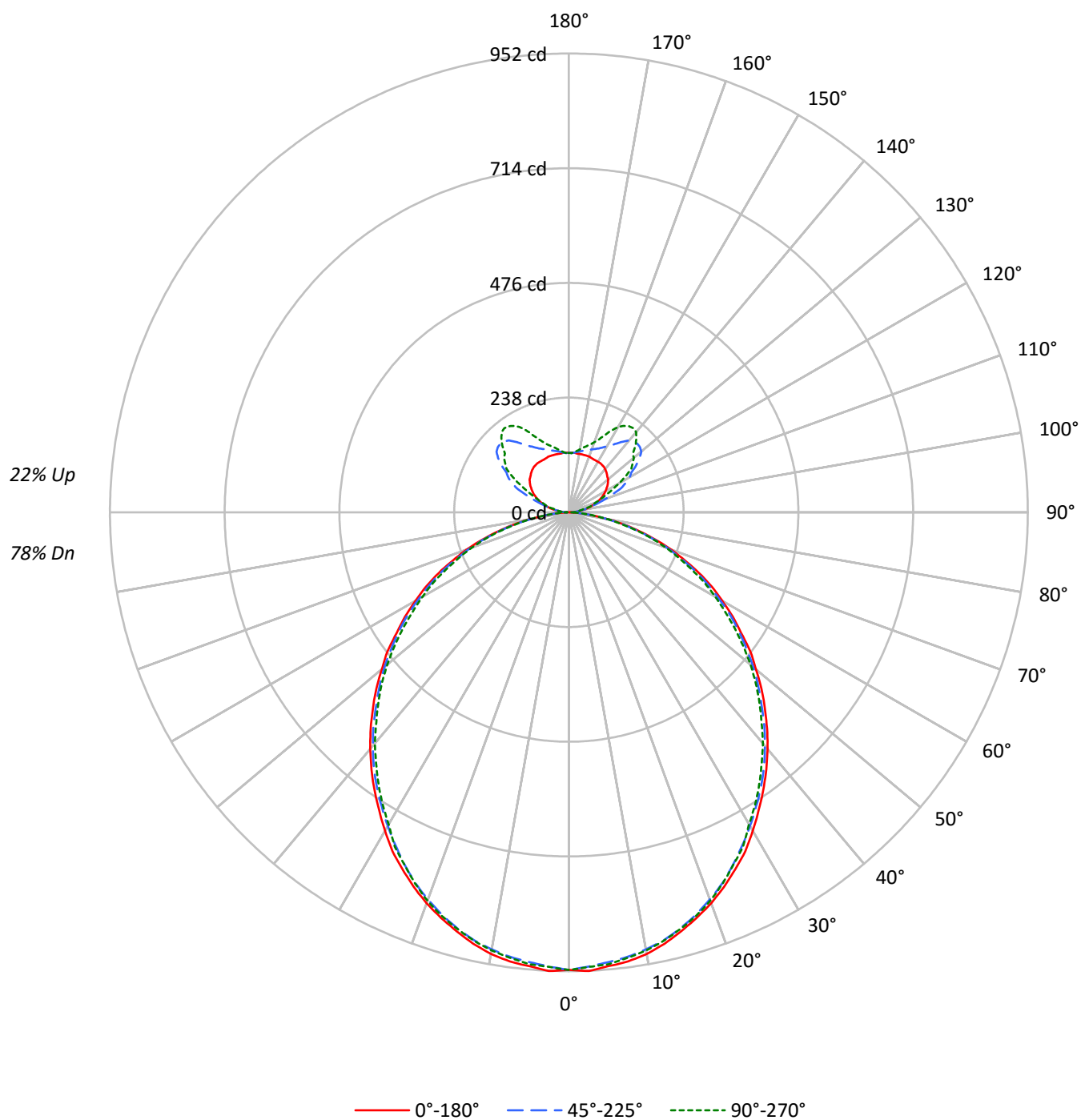
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7664	7664	7664
5°	7660	7591	7626
10°	7627	7550	7567
15°	7521	7468	7477
20°	7415	7343	7369
25°	7276	7181	7191
30°	7113	7005	6966
35°	6929	6846	6784
40°	6755	6667	6600
45°	6561	6453	6381
50°	6359	6266	6173
55°	6132	6059	5911
60°	5930	5813	5659
65°	5691	5549	5368
70°	5316	5143	5044
75°	4729	4563	4529
80°	3817	3719	3719
85°	2343	2538	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	2.9
10°-20°	252.9	8.1
20°-30°	372.9	11.9
30°-40°	435.3	13.9
40°-50°	437.1	14.0
50°-60°	384.6	12.3
60°-70°	286.5	9.2
70°-80°	156.7	5.0
80°-90°	35.6	1.1
90°-100°	18.2	0.6
100°-110°	57.3	1.8
110°-120°	107.7	3.4
120°-130°	135.7	4.3
130°-140°	133.5	4.3
140°-150°	107.9	3.4
150°-160°	69.3	2.2
160°-170°	37.9	1.2
170°-180°	12.0	0.4
0°-30°	715.2	22.8
0°-40°	1150.4	36.7
0°-60°	1972.2	63.0
0°-90°	2451.1	78.3
90°-120°	183.2	5.9
90°-150°	560.3	17.9
90°-180°	680.0	21.7
0°-180°	3130.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	945	943	937	944	941	90
15°	900	901	894	898	895	254
25°	817	812	806	808	807	376
35°	703	702	695	690	688	440
45°	575	574	565	559	559	444
55°	436	438	430	423	420	391
65°	298	296	290	283	281	294
75°	152	150	146	146	145	161
85°	25	26	27	28	27	33
90°	1	2	3	4	3	2
95°	17	16	16	17	18	17
105°	47	76	50	48	45	50
115°	76	150	120	90	84	75
125°	98	156	170	158	158	87
135°	112	139	201	202	195	86
145°	120	135	175	210	218	75
155°	121	132	146	167	177	56
165°	123	126	133	139	142	35
175°	124	124	124	126	125	12
180°	123	123	123	123	123	



TEST NUMBER: P253414

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.4	949.4	949.4	949.4	949.4
2.5°	952.5	947.3	943.1	948.3	944.1
5°	945.2	943.1	936.7	944.1	941.0
7.5°	939.9	936.7	930.4	936.7	932.5
10°	930.4	928.3	921.0	925.2	923.1
12.5°	916.8	916.8	909.4	913.6	910.4
15°	899.9	901.0	893.6	897.8	894.6
17.5°	882.0	883.1	875.7	879.9	877.8
20°	863.1	859.9	854.7	857.8	857.8
22.5°	841.0	836.8	832.5	832.5	833.6
25°	816.8	811.5	806.2	808.3	807.3
27.5°	792.6	786.2	778.9	782.0	782.0
30°	763.1	758.9	751.5	753.6	747.3
32.5°	732.6	730.5	723.1	722.0	718.9
35°	703.1	702.0	694.7	690.5	688.4
37.5°	672.6	672.6	665.2	661.0	656.8
40°	641.0	638.9	632.6	627.3	626.3
42.5°	608.4	607.3	599.9	593.6	591.5
45°	574.7	573.6	565.2	558.9	558.9
47.5°	542.1	538.9	532.6	525.2	526.3
50°	506.3	506.3	498.9	492.6	491.5
52.5°	474.7	471.5	464.2	460.0	455.7
55°	435.7	437.9	430.5	423.1	420.0
57.5°	403.1	403.1	396.8	388.4	384.2
60°	367.3	367.3	360.0	354.7	350.5
62.5°	334.7	332.6	325.2	318.9	317.9
65°	297.9	295.8	290.5	283.1	281.0
67.5°	260.0	258.9	252.6	248.4	247.3
70°	225.2	222.1	217.9	214.7	213.7
72.5°	188.4	185.2	183.1	180.0	180.0
75°	151.6	149.5	146.3	146.3	145.2
77.5°	116.8	114.7	114.7	112.6	110.5
80°	82.1	83.1	80.0	80.0	80.0
82.5°	51.6	52.6	50.5	50.5	50.5
85°	25.3	26.3	27.4	28.4	27.4
87.5°	7.4	9.5	11.6	12.6	11.6
90°	1.1	2.1	3.2	4.2	3.2
92.5°	8.4	9.5	11.6	12.6	12.6
95°	16.8	15.8	15.8	16.8	17.9
97.5°	24.2	25.3	20.0	21.1	21.1
100°	32.6	40.0	30.5	25.3	25.3
102.5°	40.0	57.9	40.0	34.7	31.6
105°	47.4	75.8	49.5	48.4	45.3
107.5°	54.7	92.6	63.2	51.6	51.6
110°	63.2	112.6	80.0	63.2	58.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.5	134.7	98.9	74.7	70.5
115°	75.8	150.5	120.0	90.5	84.2
117.5°	82.1	157.9	133.7	110.5	101.0
120°	87.4	161.0	145.2	130.5	120.0
122.5°	92.6	160.0	153.7	148.4	140.0
125°	97.9	155.8	170.5	157.9	157.9
127.5°	102.1	149.5	185.2	167.4	166.3
130°	106.3	144.2	195.8	172.6	175.8
132.5°	108.4	141.0	200.0	187.3	180.0
135°	111.6	138.9	201.0	202.1	194.7
137.5°	114.7	138.9	198.9	211.6	207.3
140°	116.8	137.9	194.7	215.8	216.8
142.5°	118.9	135.8	185.2	214.7	220.0
145°	120.0	134.7	174.7	210.5	217.9
147.5°	121.0	133.7	165.2	203.1	212.6
150°	121.0	132.6	157.9	192.6	204.2
152.5°	121.0	131.6	151.6	178.9	191.6
155°	121.0	131.6	146.3	167.4	176.8
157.5°	122.1	129.5	142.1	157.9	164.2
160°	123.1	128.4	138.9	150.5	154.7
162.5°	123.1	127.4	135.8	144.2	147.4
165°	123.1	126.3	132.6	138.9	142.1
167.5°	123.1	126.3	130.5	135.8	137.9
170°	123.1	125.3	128.4	131.6	132.6
172.5°	123.1	125.3	126.3	128.4	128.4
175°	124.2	124.2	124.2	126.3	125.3
177.5°	124.2	124.2	123.1	124.2	123.1
180°	123.1	123.1	123.1	123.1	123.1

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