

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: P253376

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1997.1 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

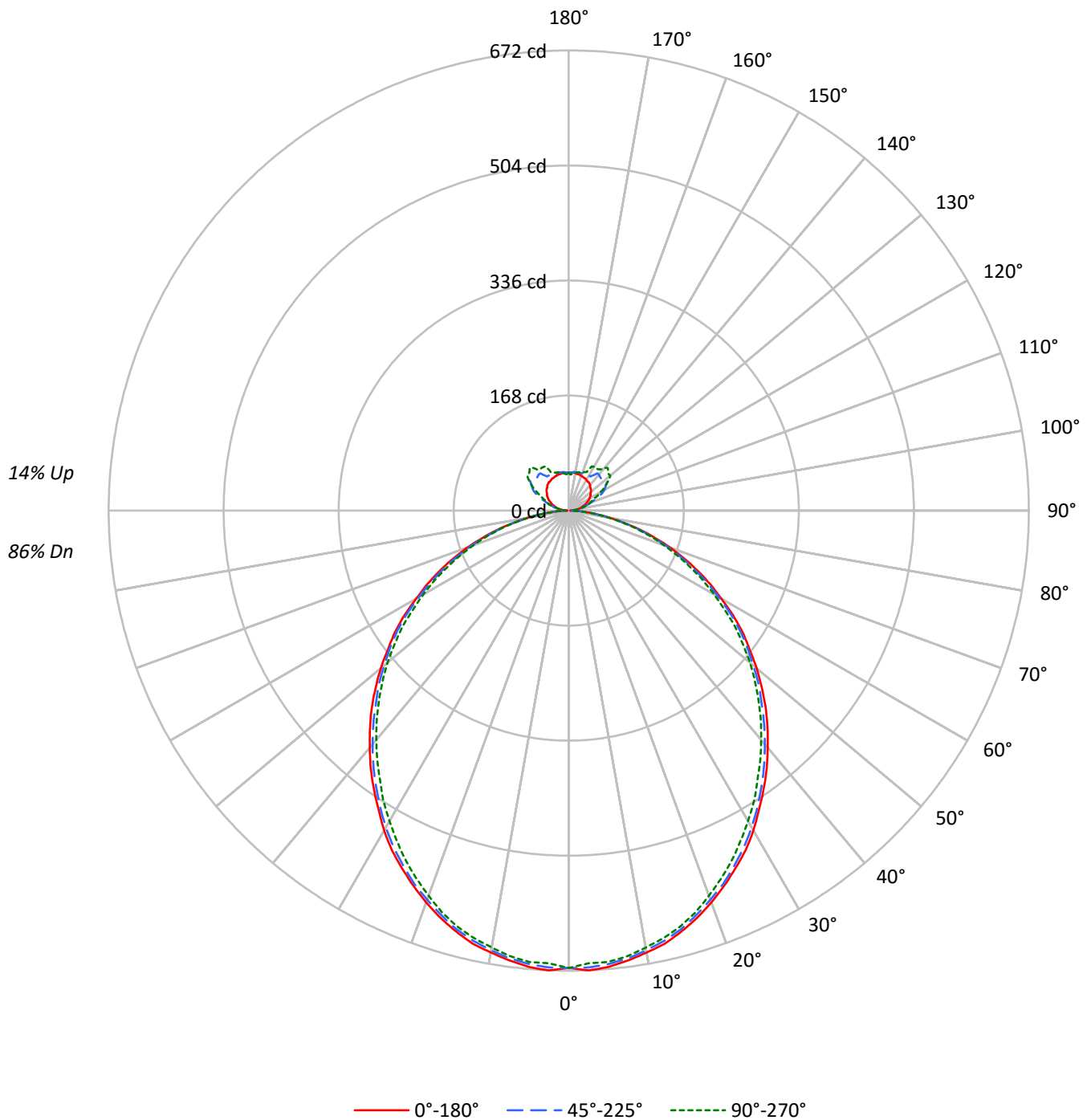
Input Watts (W): 17.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104		96	96	96		90
1	106	101	97	94	102	98	94	91	91	88	85		85	83	80		79
2	97	89	82	77	93	86	80	75	80	75	71		75	71	67		70
3	88	78	70	64	85	75	68	62	71	65	60		66	61	57		62
4	81	69	61	54	77	67	59	53	63	56	51		59	53	49		55
5	74	62	53	47	71	60	52	46	56	49	44		53	47	42		50
6	69	56	47	41	66	54	46	40	51	44	39		48	42	37		45
7	64	51	42	36	61	49	41	36	46	39	34		44	38	33		41
8	59	46	38	32	57	45	37	32	42	36	31		40	34	30		38
9	55	42	34	29	53	41	34	29	39	32	28		37	31	27		35
10	52	39	31	26	50	38	31	26	36	30	25		34	29	24		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5392	5392	5392
5°	5421	5387	5361
10°	5371	5346	5311
15°	5318	5291	5256
20°	5231	5195	5141
25°	5133	5095	5020
30°	5028	4979	4881
35°	4890	4838	4734
40°	4762	4696	4607
45°	4642	4546	4474
50°	4499	4418	4339
55°	4359	4300	4182
60°	4149	4082	3964
65°	3964	3864	3742
70°	3706	3604	3482
75°	3353	3284	3188
80°	2841	2789	2743
85°	2149	2242	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.2
10°-20°	177.8	8.9
20°-30°	262.2	13.1
30°-40°	305.6	15.3
40°-50°	307.2	15.4
50°-60°	270.6	13.5
60°-70°	199.7	10.0
70°-80°	110.7	5.5
80°-90°	28.8	1.4
90°-100°	10.2	0.5
100°-110°	26.4	1.3
110°-120°	42.9	2.1
120°-130°	53.5	2.7
130°-140°	50.3	2.5
140°-150°	39.7	2.0
150°-160°	27.3	1.4
160°-170°	16.1	0.8
170°-180°	5.3	0.3
0°-30°	502.8	25.2
0°-40°	808.4	40.5
0°-60°	1386.2	69.4
0°-90°	1725.4	86.4
90°-120°	79.5	4.0
90°-150°	223.0	11.2
90°-180°	272.0	13.6
0°-180°	1997.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	669	662	665	663	662	63
15°	636	630	633	630	629	179
25°	576	571	572	565	564	266
35°	496	492	491	482	480	311
45°	407	402	398	393	392	313
55°	310	307	306	299	297	276
65°	208	205	202	198	196	205
75°	108	106	105	102	102	114
85°	23	24	24	23	23	27
90°	2	4	4	4	4	2
95°	7	8	10	10	10	8
105°	20	27	24	26	24	21
115°	30	47	48	42	41	30
125°	39	54	66	68	67	35
135°	45	51	66	82	81	35
145°	51	53	63	73	74	31
155°	53	55	58	62	62	24
165°	55	55	58	59	58	16
175°	56	56	56	56	54	5
180°	55	55	55	55	55	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.9	667.9	667.9	667.9	667.9
2.5°	672.1	664.7	667.9	665.8	661.6
5°	668.9	661.6	664.7	662.6	661.6
7.5°	662.6	656.3	659.5	657.3	656.3
10°	655.2	648.9	652.1	648.9	647.9
12.5°	647.9	640.5	643.7	639.4	639.4
15°	636.3	630.0	633.1	630.0	628.9
17.5°	623.6	617.3	619.4	616.3	615.2
20°	608.9	602.6	604.7	600.5	598.4
22.5°	593.1	587.8	589.9	582.6	581.5
25°	576.2	571.0	572.0	564.6	563.6
27.5°	559.4	552.0	554.1	545.7	543.6
30°	539.4	533.0	534.1	525.7	523.6
32.5°	517.2	513.0	513.0	504.6	503.5
35°	496.2	492.0	490.9	482.5	480.4
37.5°	475.1	469.8	468.8	459.3	459.3
40°	451.9	447.7	445.6	438.2	437.2
42.5°	429.8	424.5	422.4	415.1	415.1
45°	406.6	402.4	398.2	392.9	391.9
47.5°	382.4	378.2	376.1	369.8	368.7
50°	358.2	355.0	351.8	346.6	345.5
52.5°	332.9	330.8	328.7	323.4	320.2
55°	309.7	306.6	305.5	299.2	297.1
57.5°	284.4	281.3	280.2	272.8	269.7
60°	257.0	253.9	252.8	246.5	245.5
62.5°	232.8	229.6	227.5	223.3	221.2
65°	207.5	205.4	202.3	198.0	195.9
67.5°	182.2	180.1	177.0	173.8	171.7
70°	157.0	154.9	152.7	148.5	147.5
72.5°	131.7	129.6	127.5	125.4	125.4
75°	107.5	106.4	105.3	102.2	102.2
77.5°	83.2	82.2	81.1	80.1	80.1
80°	61.1	61.1	60.0	59.0	59.0
82.5°	41.1	41.1	41.1	40.0	40.0
85°	23.2	24.2	24.2	23.2	23.2
87.5°	9.5	9.5	9.5	9.5	9.5
90°	2.1	4.2	4.2	4.2	4.2
92.5°	4.2	5.3	6.3	7.4	6.3
95°	7.4	8.4	9.5	9.5	9.5
97.5°	11.6	12.6	12.6	12.6	12.6
100°	14.7	16.9	15.8	16.9	15.8
102.5°	17.9	22.1	22.1	20.0	20.0
105°	20.0	27.4	24.2	26.3	24.2
107.5°	22.1	33.7	28.4	29.5	30.5
110°	25.3	37.9	34.8	31.6	32.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.4	46.4	41.1	36.9	35.8
115°	29.5	47.4	48.5	42.1	41.1
117.5°	32.7	47.4	54.8	49.5	47.4
120°	34.8	50.6	60.0	55.8	53.7
122.5°	36.9	52.7	63.2	63.2	61.1
125°	39.0	53.7	66.4	68.5	67.4
127.5°	40.0	50.6	71.6	74.8	73.7
130°	42.1	48.5	70.6	75.8	79.0
132.5°	44.2	49.5	68.5	76.9	79.0
135°	45.3	50.6	66.4	82.2	81.1
137.5°	46.4	51.6	67.4	79.0	84.3
140°	48.5	51.6	68.5	74.8	81.1
142.5°	49.5	52.7	68.5	71.6	75.8
145°	50.6	52.7	63.2	72.7	73.7
147.5°	50.6	53.7	59.0	73.7	73.7
150°	51.6	53.7	59.0	73.7	73.7
152.5°	52.7	54.8	57.9	64.3	72.7
155°	52.7	54.8	57.9	62.2	62.2
157.5°	53.7	54.8	57.9	61.1	61.1
160°	53.7	54.8	57.9	60.0	59.0
162.5°	54.8	54.8	56.9	59.0	57.9
165°	54.8	54.8	57.9	59.0	57.9
167.5°	54.8	55.8	56.9	57.9	56.9
170°	55.8	55.8	56.9	56.9	55.8
172.5°	55.8	55.8	56.9	55.8	54.8
175°	55.8	55.8	55.8	55.8	53.7
177.5°	55.8	54.8	55.8	54.8	52.7
180°	54.8	54.8	54.8	54.8	54.8

(END OF REPORT)