

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: P274852

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274852
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-20L82765-1D-UNV-W2A-DLED-W-4 (5000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1937.5 lumens
Efficiency: N/A
Efficacy: 111.4 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

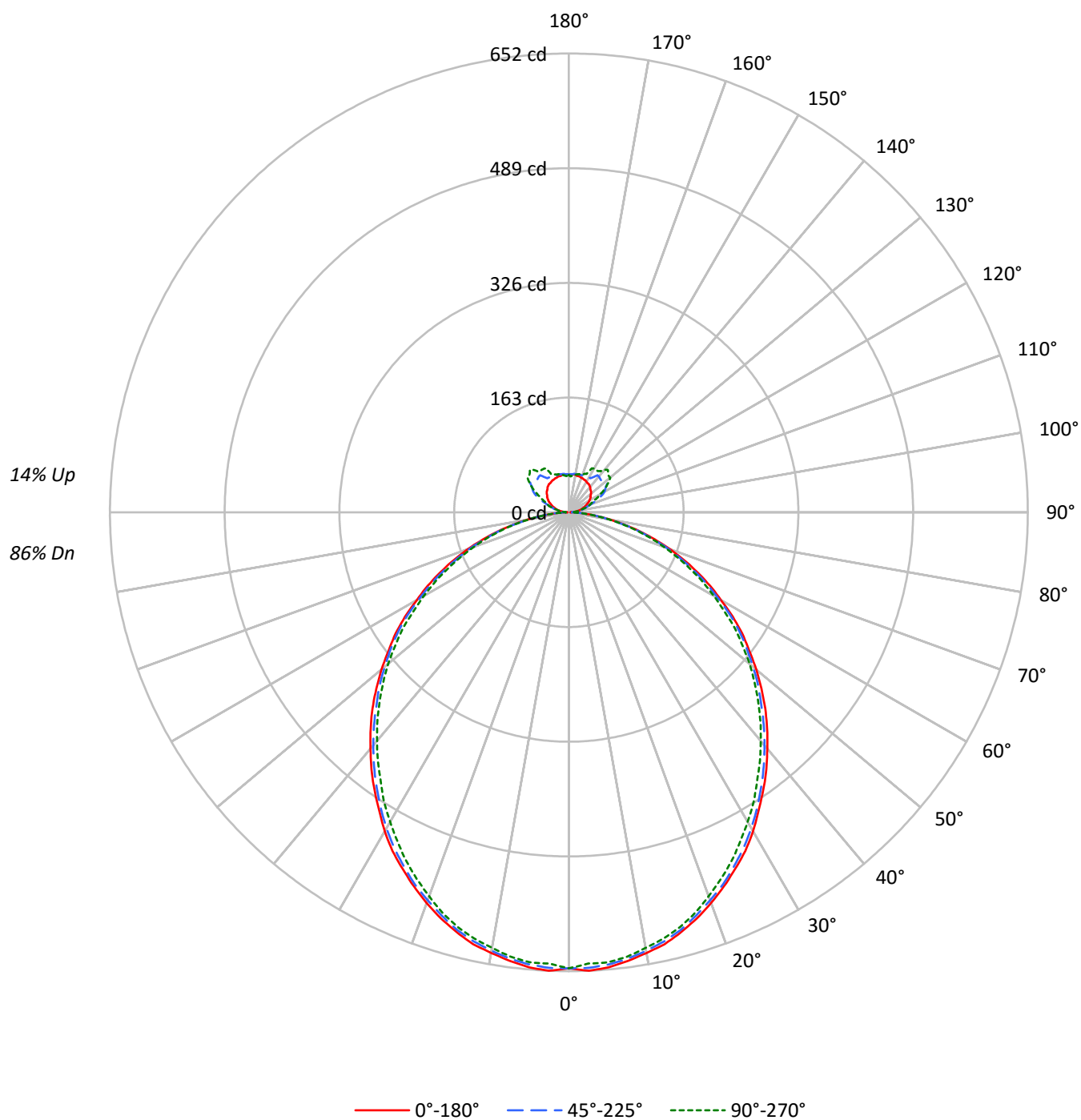
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	5230	5230	5230
5°	5259	5226	5201
10°	5211	5186	5152
15°	5159	5133	5099
20°	5075	5040	4987
25°	4979	4943	4871
30°	4878	4830	4735
35°	4744	4693	4593
40°	4620	4556	4469
45°	4504	4410	4341
50°	4364	4286	4210
55°	4229	4172	4056
60°	4027	3961	3844
65°	3845	3748	3631
70°	3595	3498	3378
75°	3250	3188	3091
80°	2757	2710	2659
85°	2084	2177	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.2
10°-20°	172.4	8.9
20°-30°	254.3	13.1
30°-40°	296.4	15.3
40°-50°	298.1	15.4
50°-60°	262.5	13.5
60°-70°	193.8	10.0
70°-80°	107.3	5.5
80°-90°	27.9	1.4
90°-100°	9.9	0.5
100°-110°	25.6	1.3
110°-120°	41.6	2.1
120°-130°	52.0	2.7
130°-140°	48.8	2.5
140°-150°	38.5	2.0
150°-160°	26.5	1.4
160°-170°	15.6	0.8
170°-180°	5.2	0.3
0°-30°	487.8	25.2
0°-40°	784.3	40.5
0°-60°	1344.8	69.4
0°-90°	1673.8	86.4
90°-120°	77.2	4.0
90°-150°	216.4	11.2
90°-180°	264.0	13.6
0°-180°	1937.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	649	642	645	643	642	61
15°	617	611	614	611	610	174
25°	559	554	555	548	547	258
35°	481	477	476	468	466	301
45°	394	390	386	381	380	304
55°	300	297	296	290	288	268
65°	201	199	196	192	190	199
75°	104	103	102	99	99	110
85°	22	24	24	22	22	26
90°	2	4	4	4	4	2
95°	7	8	9	9	9	8
105°	19	27	24	26	24	21
115°	29	46	47	41	40	29
125°	38	52	64	66	65	34
135°	44	49	64	80	79	34
145°	49	51	61	70	72	31
155°	51	53	56	60	60	24
165°	53	53	56	57	56	15
175°	54	54	54	54	52	5
180°	53	53	53	53	53	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.9	647.9	647.9	647.9	647.9
2.5°	652.0	644.9	647.9	645.9	641.8
5°	649.0	641.8	644.9	642.8	641.8
7.5°	642.8	636.7	639.8	637.7	636.7
10°	635.7	629.5	632.6	629.5	628.5
12.5°	628.5	621.4	624.4	620.3	620.3
15°	617.3	611.1	614.2	611.1	610.1
17.5°	605.0	598.9	600.9	597.9	596.8
20°	590.7	584.6	586.6	582.5	580.5
22.5°	575.4	570.3	572.3	565.2	564.1
25°	559.0	553.9	554.9	547.8	546.8
27.5°	542.7	535.5	537.6	529.4	527.3
30°	523.3	517.1	518.1	510.0	507.9
32.5°	501.8	497.7	497.7	489.5	488.5
35°	481.4	477.3	476.2	468.1	466.0
37.5°	460.9	455.8	454.8	445.6	445.6
40°	438.4	434.3	432.3	425.1	424.1
42.5°	417.0	411.9	409.8	402.7	402.7
45°	394.5	390.4	386.3	381.2	380.2
47.5°	371.0	366.9	364.8	358.7	357.7
50°	347.5	344.4	341.3	336.2	335.2
52.5°	322.9	320.9	318.9	313.7	310.7
55°	300.5	297.4	296.4	290.2	288.2
57.5°	275.9	272.9	271.8	264.7	261.6
60°	249.4	246.3	245.3	239.1	238.1
62.5°	225.9	222.8	220.7	216.7	214.6
65°	201.3	199.3	196.2	192.1	190.1
67.5°	176.8	174.8	171.7	168.6	166.6
70°	152.3	150.2	148.2	144.1	143.1
72.5°	127.7	125.7	123.7	121.6	121.6
75°	104.2	103.2	102.2	99.1	99.1
77.5°	80.7	79.7	78.7	77.7	77.7
80°	59.3	59.3	58.3	57.2	57.2
82.5°	39.9	39.9	39.9	38.8	38.8
85°	22.5	23.5	23.5	22.5	22.5
87.5°	9.2	9.2	9.2	9.2	9.2
90°	2.0	4.1	4.1	4.1	4.1
92.5°	4.1	5.1	6.1	7.2	6.1
95°	7.2	8.2	9.2	9.2	9.2
97.5°	11.2	12.3	12.3	12.3	12.3
100°	14.3	16.4	15.3	16.4	15.3
102.5°	17.4	21.5	21.5	19.4	19.4
105°	19.4	26.6	23.5	25.5	23.5
107.5°	21.5	32.7	27.6	28.6	29.6
110°	24.5	36.8	33.7	30.7	31.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.6	45.0	39.9	35.8	34.7
115°	28.6	46.0	47.0	40.9	39.9
117.5°	31.7	46.0	53.1	48.0	46.0
120°	33.7	49.1	58.3	54.2	52.1
122.5°	35.8	51.1	61.3	61.3	59.3
125°	37.8	52.1	64.4	66.4	65.4
127.5°	38.8	49.1	69.5	72.6	71.5
130°	40.9	47.0	68.5	73.6	76.6
132.5°	42.9	48.0	66.4	74.6	76.6
135°	43.9	49.1	64.4	79.7	78.7
137.5°	45.0	50.1	65.4	76.6	81.8
140°	47.0	50.1	66.4	72.6	78.7
142.5°	48.0	51.1	66.4	69.5	73.6
145°	49.1	51.1	61.3	70.5	71.5
147.5°	49.1	52.1	57.2	71.5	71.5
150°	50.1	52.1	57.2	71.5	71.5
152.5°	51.1	53.1	56.2	62.3	70.5
155°	51.1	53.1	56.2	60.3	60.3
157.5°	52.1	53.1	56.2	59.3	59.3
160°	52.1	53.1	56.2	58.3	57.2
162.5°	53.1	53.1	55.2	57.2	56.2
165°	53.1	53.1	56.2	57.2	56.2
167.5°	53.1	54.2	55.2	56.2	55.2
170°	54.2	54.2	55.2	55.2	54.2
172.5°	54.2	54.2	55.2	54.2	53.1
175°	54.2	54.2	54.2	54.2	52.1
177.5°	54.2	53.1	54.2	53.1	51.1
180°	53.1	53.1	53.1	53.1	53.1

(END OF REPORT)