

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: P253298

Luminaire Tested: **J2-WL-20L840-1D-UNV-STD-DLED-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253298
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-20L840-1D-UNV-STD-DLED-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1855.6 lumens
Efficiency: N/A
Efficacy: 124.5 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

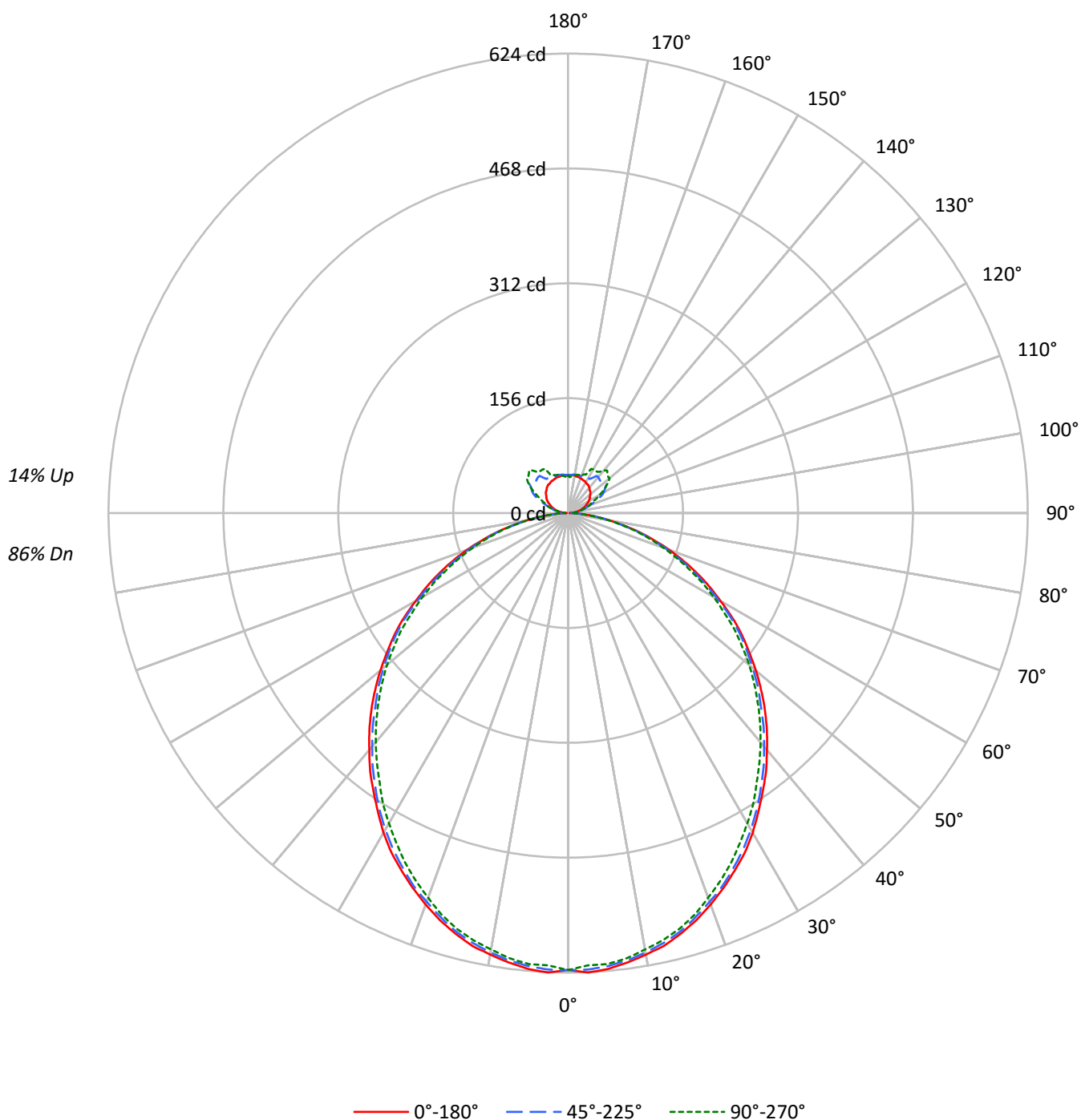
Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253298

CATALOG NUMBER: J2-WL-20L840-1D-UNV-STD-DLED-W-4

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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5009	5009	5009
5°	5037	5005	4981
10°	4991	4967	4934
15°	4941	4916	4883
20°	4860	4826	4776
25°	4769	4734	4664
30°	4671	4625	4534
35°	4543	4495	4398
40°	4425	4363	4281
45°	4313	4224	4157
50°	4180	4106	4032
55°	4051	3994	3885
60°	3856	3793	3683
65°	3683	3589	3479
70°	3441	3349	3234
75°	3113	3054	2960
80°	2641	2594	2548
85°	1991	2084	1991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.2
10°-20°	165.2	8.9
20°-30°	243.6	13.1
30°-40°	283.9	15.3
40°-50°	285.4	15.4
50°-60°	251.4	13.5
60°-70°	185.6	10.0
70°-80°	102.8	5.5
80°-90°	26.8	1.4
90°-100°	9.5	0.5
100°-110°	24.5	1.3
110°-120°	39.8	2.1
120°-130°	49.8	2.7
130°-140°	46.7	2.5
140°-150°	36.8	2.0
150°-160°	25.4	1.4
160°-170°	15.0	0.8
170°-180°	4.9	0.3
0°-30°	467.2	25.2
0°-40°	751.1	40.5
0°-60°	1287.9	69.4
0°-90°	1603.0	86.4
90°-120°	73.9	4.0
90°-150°	207.2	11.2
90°-180°	253.0	13.6
0°-180°	1855.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	622	615	618	616	615	59
15°	591	585	588	585	584	167
25°	535	530	532	525	524	247
35°	461	457	456	448	446	289
45°	378	374	370	365	364	291
55°	288	285	284	278	276	257
65°	193	191	188	184	182	191
75°	100	99	98	95	95	106
85°	22	22	22	22	22	25
90°	2	4	4	4	4	2
95°	7	8	9	9	9	7
105°	19	25	22	24	22	20
115°	27	44	45	39	38	27
125°	36	50	62	64	63	32
135°	42	47	62	76	75	33
145°	47	49	59	68	68	29
155°	49	51	54	58	58	23
165°	51	51	54	55	54	14
175°	52	52	52	52	50	5
180°	51	51	51	51	51	



TEST NUMBER: P253298

CATALOG NUMBER: J2-WL-20L840-1D-UNV-STD-DLED-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.5	620.5	620.5	620.5	620.5
2.5°	624.5	617.6	620.5	618.6	614.7
5°	621.5	614.7	617.6	615.6	614.7
7.5°	615.6	609.8	612.7	610.7	609.8
10°	608.8	602.9	605.9	602.9	601.9
12.5°	601.9	595.1	598.0	594.1	594.1
15°	591.2	585.3	588.2	585.3	584.3
17.5°	579.4	573.6	575.5	572.6	571.6
20°	565.7	559.9	561.8	557.9	555.9
22.5°	551.0	546.2	548.1	541.3	540.3
25°	535.4	530.5	531.5	524.6	523.6
27.5°	519.7	512.9	514.8	507.0	505.0
30°	501.1	495.3	496.2	488.4	486.4
32.5°	480.6	476.7	476.7	468.8	467.8
35°	461.0	457.1	456.1	448.3	446.3
37.5°	441.4	436.5	435.6	426.7	426.7
40°	419.9	416.0	414.0	407.2	406.2
42.5°	399.3	394.4	392.5	385.6	385.6
45°	377.8	373.9	370.0	365.1	364.1
47.5°	355.3	351.4	349.4	343.5	342.6
50°	332.8	329.8	326.9	322.0	321.0
52.5°	309.3	307.3	305.4	300.5	297.5
55°	287.8	284.8	283.8	278.0	276.0
57.5°	264.3	261.3	260.4	253.5	250.6
60°	238.8	235.9	234.9	229.0	228.1
62.5°	216.3	213.4	211.4	207.5	205.5
65°	192.8	190.9	187.9	184.0	182.1
67.5°	169.3	167.4	164.4	161.5	159.5
70°	145.8	143.9	141.9	138.0	137.0
72.5°	122.3	120.4	118.4	116.5	116.5
75°	99.8	98.9	97.9	94.9	94.9
77.5°	77.3	76.3	75.4	74.4	74.4
80°	56.8	56.8	55.8	54.8	54.8
82.5°	38.2	38.2	38.2	37.2	37.2
85°	21.5	22.5	22.5	21.5	21.5
87.5°	8.8	8.8	8.8	8.8	8.8
90°	2.0	3.9	3.9	3.9	3.9
92.5°	3.9	4.9	5.9	6.9	5.9
95°	6.9	7.8	8.8	8.8	8.8
97.5°	10.8	11.7	11.7	11.7	11.7
100°	13.7	15.7	14.7	15.7	14.7
102.5°	16.6	20.6	20.6	18.6	18.6
105°	18.6	25.4	22.5	24.5	22.5
107.5°	20.6	31.3	26.4	27.4	28.4
110°	23.5	35.2	32.3	29.4	30.3



TEST NUMBER: P253298

CATALOG NUMBER: J2-WL-20L840-1D-UNV-STD-DLED-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.4	43.1	38.2	34.3	33.3
115°	27.4	44.0	45.0	39.2	38.2
117.5°	30.3	44.0	50.9	46.0	44.0
120°	32.3	47.0	55.8	51.9	49.9
122.5°	34.3	48.9	58.7	58.7	56.8
125°	36.2	49.9	61.7	63.6	62.6
127.5°	37.2	47.0	66.6	69.5	68.5
130°	39.2	45.0	65.6	70.5	73.4
132.5°	41.1	46.0	63.6	71.4	73.4
135°	42.1	47.0	61.7	76.3	75.4
137.5°	43.1	48.0	62.6	73.4	78.3
140°	45.0	48.0	63.6	69.5	75.4
142.5°	46.0	48.9	63.6	66.6	70.5
145°	47.0	48.9	58.7	67.5	68.5
147.5°	47.0	49.9	54.8	68.5	68.5
150°	48.0	49.9	54.8	68.5	68.5
152.5°	48.9	50.9	53.8	59.7	67.5
155°	48.9	50.9	53.8	57.7	57.7
157.5°	49.9	50.9	53.8	56.8	56.8
160°	49.9	50.9	53.8	55.8	54.8
162.5°	50.9	50.9	52.9	54.8	53.8
165°	50.9	50.9	53.8	54.8	53.8
167.5°	50.9	51.9	52.9	53.8	52.9
170°	51.9	51.9	52.9	52.9	51.9
172.5°	51.9	51.9	52.9	51.9	50.9
175°	51.9	51.9	51.9	51.9	49.9
177.5°	51.9	50.9	51.9	50.9	48.9
180°	50.9	50.9	50.9	50.9	50.9

(END OF REPORT)