

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: P253286

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-1)
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-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2015.4 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

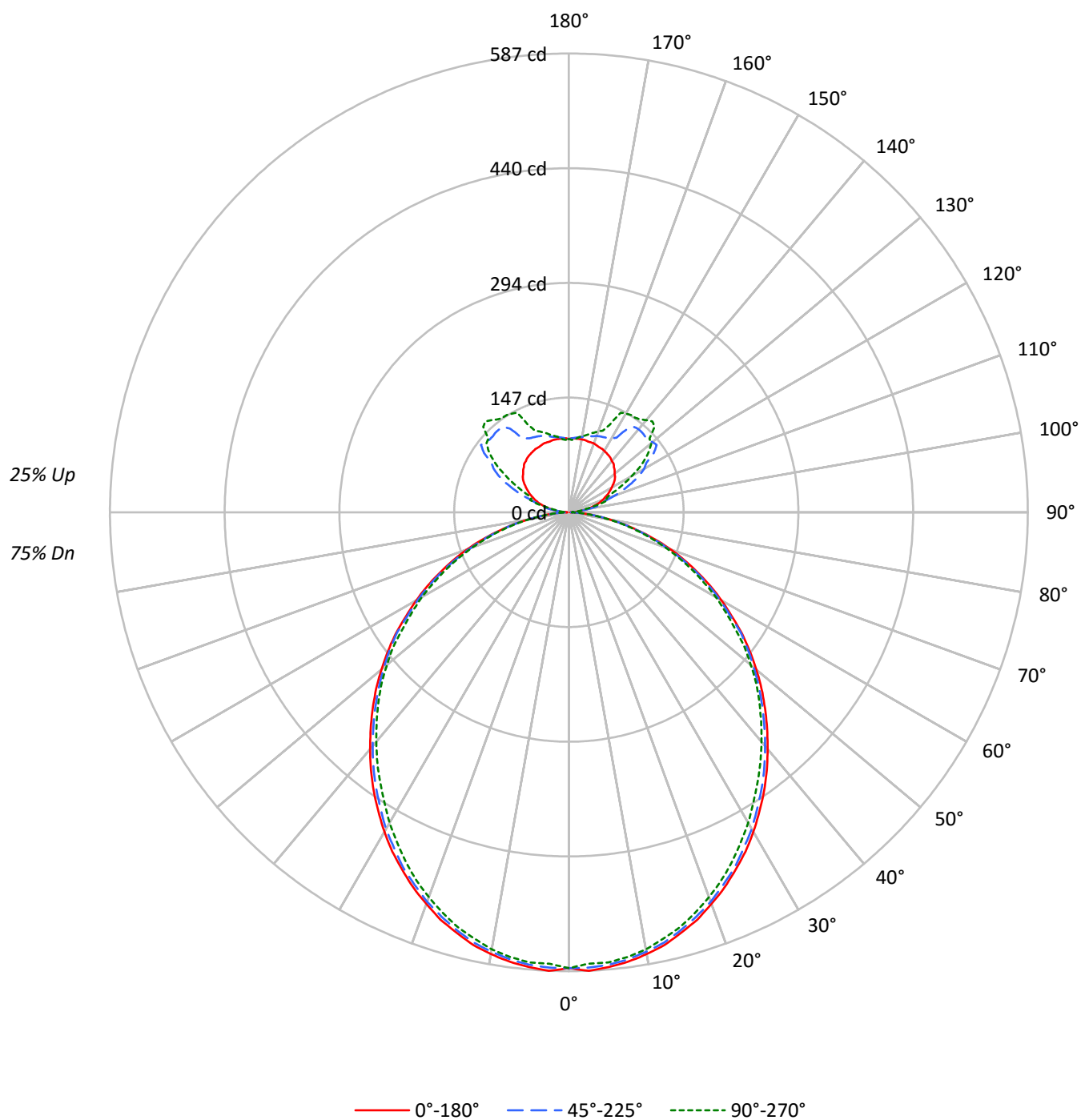
Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79			75
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67			63
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	62	59	56			53
3	86	76	68	62	81	73	66	60	66	60	56	60	56	52	55	51	48			45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	44	49	45	41			38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36			33
6	67	54	46	40	63	52	44	38	48	41	36	44	38	34	40	35	32			29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28			26
8	58	45	37	31	55	43	35	30	40	33	29	36	31	27	34	29	25			23
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23			21
10	50	38	30	25	48	36	29	24	34	27	23	31	26	22	29	24	21			19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4707	4707	4707
5°	4733	4708	4683
10°	4704	4679	4654
15°	4651	4625	4592
20°	4580	4553	4501
25°	4494	4467	4394
30°	4399	4361	4276
35°	4289	4239	4148
40°	4168	4114	4038
45°	4050	3991	3933
50°	3930	3878	3814
55°	3802	3773	3644
60°	3636	3588	3505
65°	3465	3408	3310
70°	3271	3151	3104
75°	2926	2891	2798
80°	2464	2464	2371
85°	1890	1982	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	2.7
10°-20°	155.5	7.7
20°-30°	229.5	11.4
30°-40°	267.5	13.3
40°-50°	269.2	13.4
50°-60°	237.1	11.8
60°-70°	175.9	8.7
70°-80°	97.9	4.9
80°-90°	25.5	1.3
90°-100°	12.9	0.6
100°-110°	46.2	2.3
110°-120°	80.7	4.0
120°-130°	101.7	5.0
130°-140°	96.3	4.8
140°-150°	76.7	3.8
150°-160°	50.3	2.5
160°-170°	28.4	1.4
170°-180°	9.2	0.5
0°-30°	440.0	21.8
0°-40°	707.5	35.1
0°-60°	1213.8	60.2
0°-90°	1513.1	75.1
90°-120°	139.7	6.9
90°-150°	414.4	20.6
90°-180°	502.0	24.9
0°-180°	2015.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	584	578	581	579	578	55
15°	556	550	553	550	549	157
25°	504	499	502	494	493	232
35°	435	430	430	423	421	272
45°	355	352	350	344	344	274
55°	270	269	268	261	259	241
65°	181	181	178	174	173	180
75°	94	94	93	91	90	100
85°	20	21	21	21	20	24
90°	2	3	3	4	4	2
95°	11	12	10	9	8	12
105°	35	54	41	46	42	37
115°	55	106	89	72	66	54
125°	71	114	132	123	119	63
135°	82	95	138	155	155	63
145°	89	97	130	147	148	56
155°	92	97	106	114	123	43
165°	94	96	101	104	104	27
175°	95	95	96	96	94	9
180°	94	94	94	94	94	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.0	583.0	583.0	583.0	583.0
2.5°	587.1	579.9	583.0	582.0	577.9
5°	584.0	577.9	581.0	578.9	577.9
7.5°	579.9	573.8	576.9	574.8	573.8
10°	573.8	567.7	570.8	567.7	567.7
12.5°	566.7	559.6	563.6	559.6	558.5
15°	556.5	550.4	553.4	550.4	549.4
17.5°	546.3	540.2	542.2	539.2	537.1
20°	533.1	528.0	530.0	524.9	523.9
22.5°	519.8	514.7	515.7	510.6	509.6
25°	504.5	499.4	501.5	494.3	493.3
27.5°	489.2	483.1	484.1	477.0	476.0
30°	471.9	466.8	467.8	459.7	458.7
32.5°	453.6	448.5	448.5	441.3	439.3
35°	435.2	430.1	430.1	423.0	420.9
37.5°	415.8	410.7	410.7	403.6	402.6
40°	395.5	391.4	390.4	383.2	383.2
42.5°	375.1	372.0	370.0	363.9	363.9
45°	354.7	351.6	349.6	344.5	344.5
47.5°	334.3	331.2	329.2	325.1	325.1
50°	312.9	310.9	308.8	304.7	303.7
52.5°	291.5	290.5	288.4	284.4	283.3
55°	270.1	269.1	268.1	260.9	258.9
57.5°	246.7	245.6	243.6	238.5	237.5
60°	225.2	223.2	222.2	217.1	217.1
62.5°	203.8	202.8	200.8	195.7	194.7
65°	181.4	181.4	178.4	174.3	173.3
67.5°	160.0	159.0	155.9	152.9	151.9
70°	138.6	137.6	133.5	132.5	131.5
72.5°	116.2	115.2	113.1	111.1	110.1
75°	93.8	93.8	92.7	90.7	89.7
77.5°	73.4	73.4	72.4	71.3	70.3
80°	53.0	54.0	53.0	52.0	51.0
82.5°	35.7	36.7	35.7	35.7	34.7
85°	20.4	21.4	21.4	21.4	20.4
87.5°	8.2	9.2	9.2	8.2	8.2
90°	2.0	3.1	3.1	4.1	4.1
92.5°	5.1	6.1	5.1	6.1	5.1
95°	11.2	12.2	10.2	9.2	8.2
97.5°	17.3	22.4	16.3	15.3	14.3
100°	23.4	29.6	26.5	21.4	18.3
102.5°	29.6	41.8	38.7	30.6	27.5
105°	34.7	54.0	40.8	45.9	41.8
107.5°	40.8	66.2	48.9	48.9	52.0
110°	45.9	82.6	62.2	51.0	51.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.9	102.9	75.4	59.1	55.0
115°	55.0	106.0	88.7	72.4	66.2
117.5°	59.1	108.0	100.9	86.6	79.5
120°	63.2	111.1	111.1	98.9	92.7
122.5°	67.3	113.1	117.2	112.1	107.0
125°	71.3	114.2	132.5	123.3	119.2
127.5°	74.4	109.1	141.7	131.5	129.4
130°	76.4	96.8	139.6	134.5	137.6
132.5°	79.5	93.8	137.6	147.8	139.6
135°	81.5	94.8	137.6	154.9	154.9
137.5°	84.6	95.8	138.6	150.8	158.0
140°	85.6	95.8	138.6	147.8	153.9
142.5°	87.7	96.8	137.6	145.7	149.8
145°	88.7	96.8	130.5	146.8	147.8
147.5°	89.7	96.8	113.1	144.7	147.8
150°	90.7	96.8	109.1	143.7	145.7
152.5°	91.7	96.8	107.0	130.5	143.7
155°	91.7	96.8	106.0	114.2	123.3
157.5°	92.7	96.8	105.0	111.1	113.1
160°	93.8	96.8	104.0	109.1	110.1
162.5°	93.8	95.8	101.9	107.0	107.0
165°	93.8	95.8	100.9	104.0	104.0
167.5°	94.8	95.8	98.9	101.9	100.9
170°	94.8	94.8	97.8	99.9	98.9
172.5°	94.8	94.8	96.8	97.8	96.8
175°	94.8	94.8	95.8	95.8	93.8
177.5°	94.8	94.8	94.8	94.8	92.7
180°	93.8	93.8	93.8	93.8	93.8

(END OF REPORT)