

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: P253411

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-20L93050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

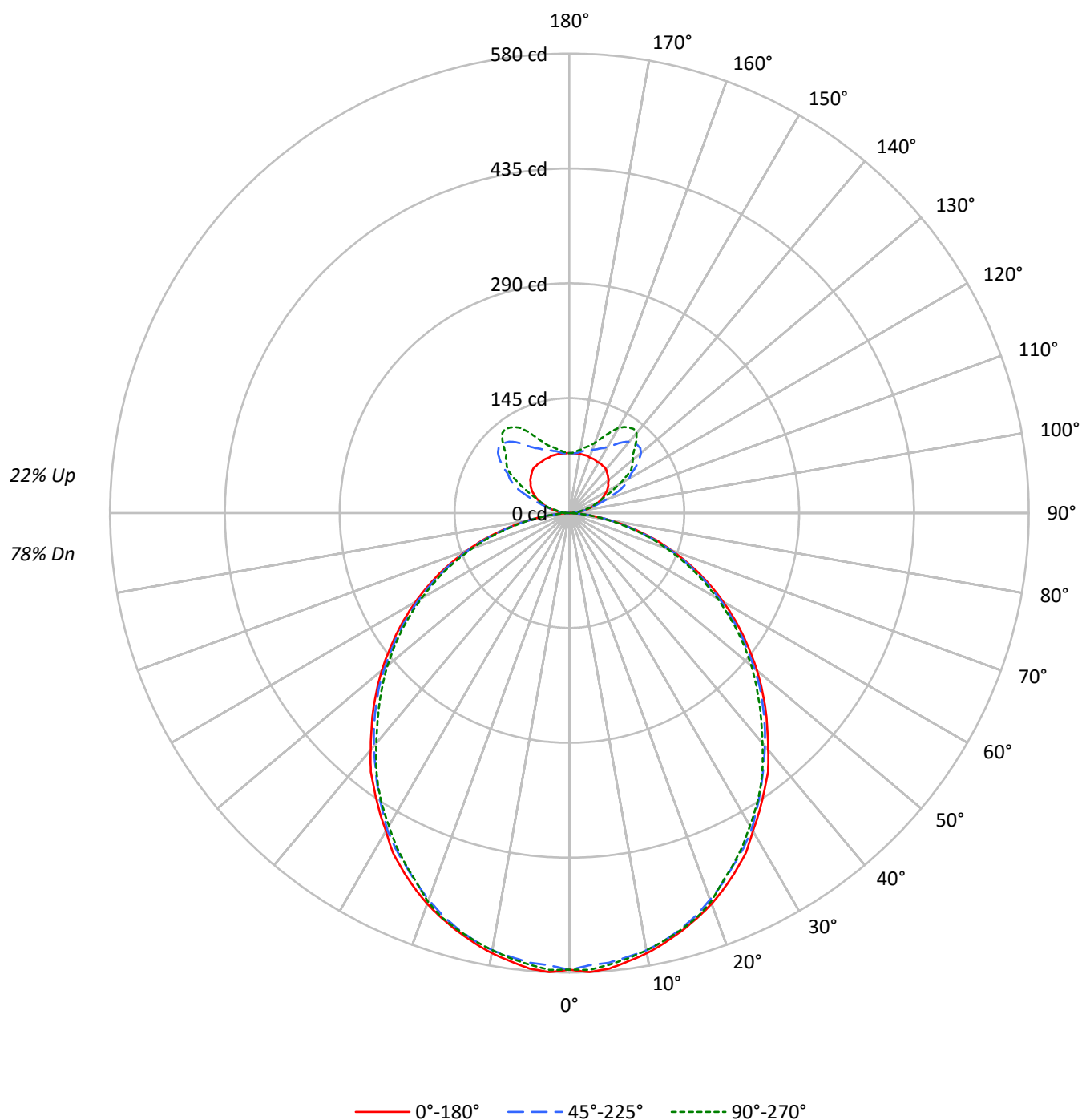
Input Watts (W): 17.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	87	84	82	80	78	76	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	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	43	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4652	4652	4652
5°	4678	4617	4639
10°	4624	4594	4594
15°	4567	4543	4551
20°	4509	4461	4485
25°	4434	4367	4359
30°	4319	4293	4249
35°	4225	4161	4151
40°	4114	4046	3996
45°	3998	3946	3870
50°	3882	3824	3765
55°	3759	3695	3641
60°	3620	3559	3484
65°	3461	3391	3318
70°	3220	3175	3087
75°	2913	2826	2739
80°	2390	2390	2259
85°	1556	1639	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	2.8
10°-20°	153.7	8.1
20°-30°	227.0	11.9
30°-40°	265.1	13.9
40°-50°	266.6	14.0
50°-60°	234.9	12.3
60°-70°	175.6	9.2
70°-80°	96.5	5.1
80°-90°	22.6	1.2
90°-100°	10.7	0.6
100°-110°	34.6	1.8
110°-120°	65.1	3.4
120°-130°	82.0	4.3
130°-140°	80.8	4.2
140°-150°	65.7	3.4
150°-160°	42.4	2.2
160°-170°	23.2	1.2
170°-180°	7.4	0.4
0°-30°	435.0	22.8
0°-40°	700.1	36.7
0°-60°	1201.6	63.0
0°-90°	1496.4	78.4
90°-120°	110.4	5.8
90°-150°	338.9	17.8
90°-180°	412.0	21.6
0°-180°	1908.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	577	574	570	572	572	55
15°	546	546	544	545	544	154
25°	498	495	490	493	489	229
35°	429	428	422	421	421	268
45°	350	349	346	343	339	270
55°	267	267	262	259	259	239
65°	181	181	178	175	174	179
75°	93	92	91	90	88	99
85°	17	18	18	18	18	21
90°	0	0	0	0	0	2
95°	10	9	9	10	10	10
105°	29	46	30	30	28	31
115°	47	91	72	55	50	46
125°	60	94	103	95	95	53
135°	68	85	121	121	117	53
145°	73	82	107	128	132	46
155°	75	80	90	102	108	34
165°	76	78	81	85	87	21
175°	76	77	76	78	78	7
180°	76	76	76	76	76	



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CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.3	576.3	576.3	576.3	576.3
2.5°	580.0	576.3	571.6	575.3	577.2
5°	577.2	573.5	569.7	572.5	572.5
7.5°	570.7	569.7	565.1	568.8	566.9
10°	564.1	563.2	560.4	563.2	560.4
12.5°	555.7	554.8	552.9	556.7	552.9
15°	546.4	546.4	543.6	545.4	544.5
17.5°	536.1	536.1	532.4	534.2	535.2
20°	524.9	523.0	519.3	521.2	522.1
22.5°	511.8	510.0	505.3	507.2	504.4
25°	497.8	495.0	490.3	493.1	489.4
27.5°	482.9	478.2	476.3	477.3	473.5
30°	463.3	462.3	460.5	458.6	455.8
32.5°	446.4	445.5	440.8	439.0	439.0
35°	428.7	427.8	422.2	421.2	421.2
37.5°	411.9	409.1	402.5	401.6	400.7
40°	390.4	389.5	383.9	382.0	379.2
42.5°	369.9	368.9	365.2	362.4	358.7
45°	350.2	349.3	345.6	342.8	339.0
47.5°	329.7	330.6	326.0	321.3	319.4
50°	309.1	310.1	304.5	300.7	299.8
52.5°	287.7	288.6	283.0	279.3	279.3
55°	267.1	267.1	262.5	258.7	258.7
57.5°	245.6	245.6	241.0	238.2	237.2
60°	224.2	223.2	220.4	217.6	215.8
62.5°	202.7	202.7	198.9	196.1	194.3
65°	181.2	181.2	177.5	174.7	173.7
67.5°	158.8	159.7	156.0	153.2	152.2
70°	136.4	136.4	134.5	130.8	130.8
72.5°	115.8	113.9	113.0	110.2	110.2
75°	93.4	92.5	90.6	89.7	87.8
77.5°	71.9	71.9	70.0	69.1	68.2
80°	51.4	53.2	51.4	50.4	48.6
82.5°	32.7	34.6	33.6	31.8	31.8
85°	16.8	17.7	17.7	17.7	17.7
87.5°	5.6	6.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	5.6	7.5	7.5	7.5
95°	10.3	9.3	9.3	10.3	10.3
97.5°	14.9	14.9	12.1	12.1	12.1
100°	19.6	24.3	18.7	14.9	14.9
102.5°	24.3	34.6	24.3	20.5	18.7
105°	29.0	45.8	29.9	29.9	28.0
107.5°	33.6	55.1	38.3	30.8	31.8
110°	38.3	68.2	47.6	38.3	36.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	43.0	81.3	59.8	45.8	43.0
115°	46.7	90.6	71.9	55.1	50.4
117.5°	50.4	95.3	80.3	67.2	60.7
120°	54.2	97.1	86.9	78.5	72.9
122.5°	57.0	97.1	92.5	89.7	84.1
125°	59.8	94.3	102.7	95.3	95.3
127.5°	61.6	91.5	111.1	100.9	99.9
130°	64.4	88.7	117.7	103.7	104.6
132.5°	66.3	85.9	121.4	113.0	108.3
135°	68.2	85.0	121.4	121.4	116.7
137.5°	70.0	84.1	120.5	128.0	125.2
140°	71.9	84.1	117.7	130.8	131.7
142.5°	72.9	83.1	113.0	130.8	133.6
145°	72.9	82.2	107.4	128.0	131.7
147.5°	73.8	81.3	100.9	123.3	128.9
150°	73.8	81.3	96.2	117.7	124.2
152.5°	73.8	80.3	92.5	109.3	116.7
155°	74.7	80.3	89.7	101.8	108.3
157.5°	74.7	79.4	86.9	96.2	100.9
160°	74.7	78.5	85.0	91.5	94.3
162.5°	75.7	77.5	83.1	87.8	89.7
165°	75.7	77.5	81.3	85.0	86.9
167.5°	75.7	76.6	80.3	83.1	84.1
170°	75.7	76.6	78.5	80.3	81.3
172.5°	75.7	76.6	76.6	78.5	79.4
175°	75.7	76.6	75.7	77.5	77.5
177.5°	75.7	75.7	75.7	75.7	75.7
180°	75.7	75.7	75.7	75.7	75.7

(END OF REPORT)