

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: P253405

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253405
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-20L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2150.4 lumens
Efficiency: N/A
Efficacy: 123.6 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

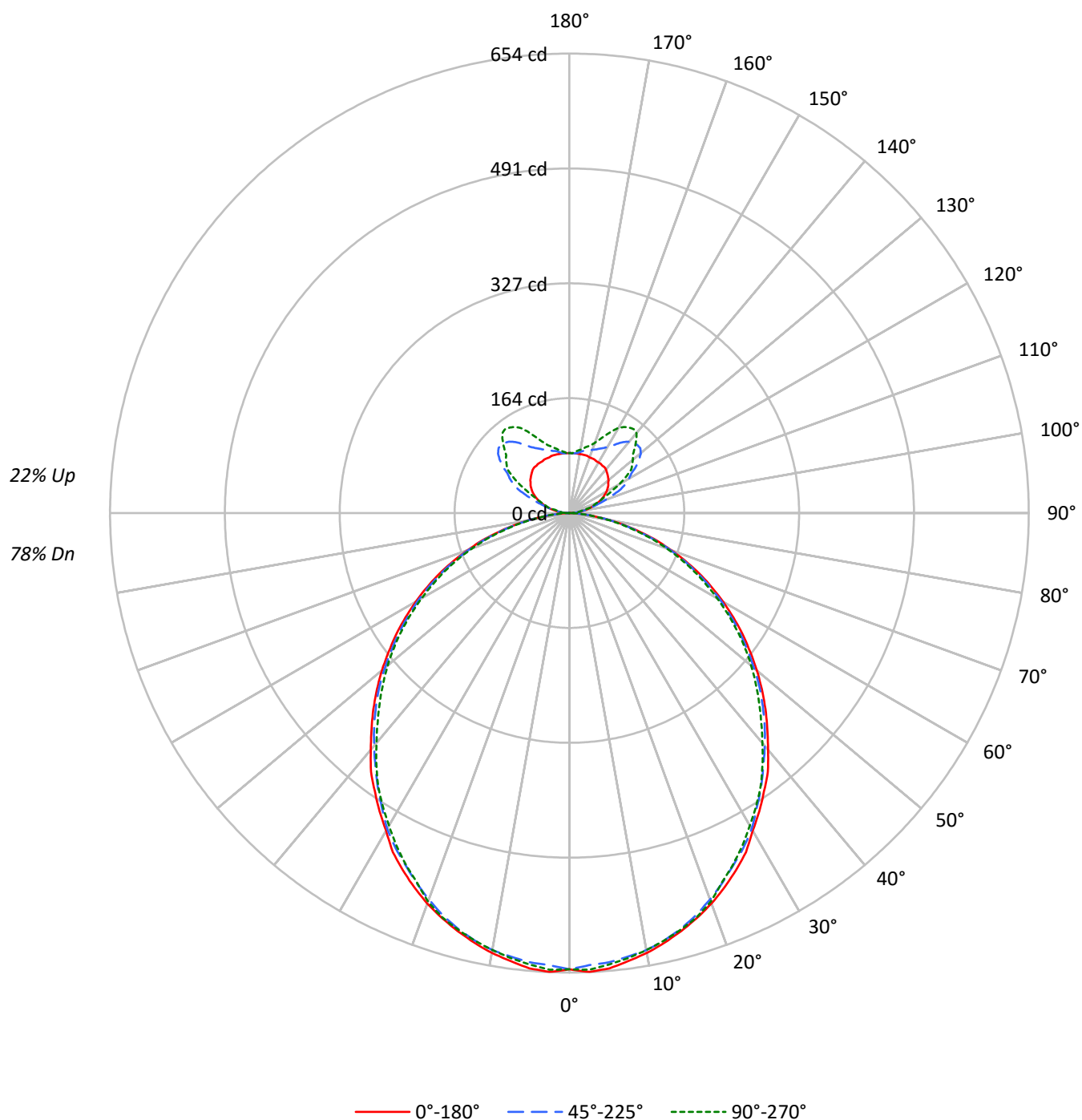
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	5243	5243	5243
5°	5272	5203	5229
10°	5211	5177	5177
15°	5146	5120	5128
20°	5082	5027	5055
25°	4997	4922	4912
30°	4867	4837	4788
35°	4761	4688	4678
40°	4637	4559	4503
45°	4506	4446	4362
50°	4376	4309	4244
55°	4236	4163	4103
60°	4078	4011	3925
65°	3901	3820	3740
70°	3628	3578	3479
75°	3284	3185	3085
80°	2692	2692	2543
85°	1751	1853	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	2.8
10°-20°	173.2	8.1
20°-30°	255.8	11.9
30°-40°	298.7	13.9
40°-50°	300.4	14.0
50°-60°	264.7	12.3
60°-70°	197.9	9.2
70°-80°	108.8	5.1
80°-90°	25.5	1.2
90°-100°	12.0	0.6
100°-110°	39.0	1.8
110°-120°	73.4	3.4
120°-130°	92.4	4.3
130°-140°	91.1	4.2
140°-150°	74.1	3.4
150°-160°	47.7	2.2
160°-170°	26.1	1.2
170°-180°	8.3	0.4
0°-30°	490.2	22.8
0°-40°	788.9	36.7
0°-60°	1354.1	63.0
0°-90°	1686.3	78.4
90°-120°	124.4	5.8
90°-150°	382.0	17.8
90°-180°	464.0	21.6
0°-180°	2150.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	650	646	642	645	645	62
15°	616	616	613	615	614	174
25°	561	558	553	556	552	258
35°	483	482	476	475	475	302
45°	395	394	389	386	382	304
55°	301	301	296	292	292	269
65°	204	204	200	197	196	202
75°	105	104	102	101	99	111
85°	19	20	20	20	20	24
90°	0	0	0	0	0	2
95°	12	10	10	12	12	12
105°	33	52	34	34	32	34
115°	53	102	81	62	57	52
125°	67	106	116	107	107	60
135°	77	96	137	137	132	59
145°	82	93	121	144	148	52
155°	84	90	101	115	122	39
165°	85	87	92	96	98	24
175°	85	86	85	87	87	8
180°	85	85	85	85	85	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.4	649.4	649.4	649.4	649.4
2.5°	653.6	649.4	644.1	648.4	650.5
5°	650.5	646.3	642.0	645.2	645.2
7.5°	643.1	642.0	636.8	641.0	638.9
10°	635.7	634.7	631.5	634.7	631.5
12.5°	626.3	625.2	623.1	627.3	623.1
15°	615.7	615.7	612.6	614.7	613.6
17.5°	604.1	604.1	599.9	602.0	603.1
20°	591.5	589.4	585.2	587.3	588.4
22.5°	576.8	574.7	569.4	571.5	568.4
25°	561.0	557.8	552.6	555.7	551.5
27.5°	544.2	538.9	536.8	537.8	533.6
30°	522.1	521.0	518.9	516.8	513.6
32.5°	503.1	502.1	496.8	494.7	494.7
35°	483.1	482.1	475.7	474.7	474.7
37.5°	464.2	461.0	453.6	452.6	451.5
40°	440.0	438.9	432.6	430.5	427.3
42.5°	416.8	415.7	411.5	408.4	404.2
45°	394.7	393.6	389.4	386.3	382.1
47.5°	371.5	372.6	367.3	362.1	360.0
50°	348.4	349.4	343.1	338.9	337.9
52.5°	324.2	325.2	318.9	314.7	314.7
55°	301.0	301.0	295.8	291.5	291.5
57.5°	276.8	276.8	271.6	268.4	267.3
60°	252.6	251.6	248.4	245.2	243.1
62.5°	228.4	228.4	224.2	221.0	218.9
65°	204.2	204.2	200.0	196.8	195.8
67.5°	178.9	180.0	175.8	172.6	171.6
70°	153.7	153.7	151.6	147.4	147.4
72.5°	130.5	128.4	127.4	124.2	124.2
75°	105.3	104.2	102.1	101.0	98.9
77.5°	81.0	81.0	78.9	77.9	76.8
80°	57.9	60.0	57.9	56.8	54.7
82.5°	36.8	38.9	37.9	35.8	35.8
85°	18.9	20.0	20.0	20.0	20.0
87.5°	6.3	7.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	6.3	6.3	8.4	8.4	8.4
95°	11.6	10.5	10.5	11.6	11.6
97.5°	16.8	16.8	13.7	13.7	13.7
100°	22.1	27.4	21.1	16.8	16.8
102.5°	27.4	38.9	27.4	23.2	21.1
105°	32.6	51.6	33.7	33.7	31.6
107.5°	37.9	62.1	43.2	34.7	35.8
110°	43.2	76.8	53.7	43.2	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.4	91.6	67.4	51.6	48.4
115°	52.6	102.1	81.0	62.1	56.8
117.5°	56.8	107.4	90.5	75.8	68.4
120°	61.0	109.5	97.9	88.4	82.1
122.5°	64.2	109.5	104.2	101.0	94.7
125°	67.4	106.3	115.8	107.4	107.4
127.5°	69.5	103.1	125.3	113.7	112.6
130°	72.6	100.0	132.6	116.8	117.9
132.5°	74.7	96.8	136.8	127.4	122.1
135°	76.8	95.8	136.8	136.8	131.6
137.5°	78.9	94.7	135.8	144.2	141.0
140°	81.0	94.7	132.6	147.4	148.4
142.5°	82.1	93.7	127.4	147.4	150.5
145°	82.1	92.6	121.0	144.2	148.4
147.5°	83.1	91.6	113.7	138.9	145.2
150°	83.1	91.6	108.4	132.6	140.0
152.5°	83.1	90.5	104.2	123.1	131.6
155°	84.2	90.5	101.0	114.7	122.1
157.5°	84.2	89.5	97.9	108.4	113.7
160°	84.2	88.4	95.8	103.1	106.3
162.5°	85.3	87.4	93.7	98.9	101.0
165°	85.3	87.4	91.6	95.8	97.9
167.5°	85.3	86.3	90.5	93.7	94.7
170°	85.3	86.3	88.4	90.5	91.6
172.5°	85.3	86.3	86.3	88.4	89.5
175°	85.3	86.3	85.3	87.4	87.4
177.5°	85.3	85.3	85.3	85.3	85.3
180°	85.3	85.3	85.3	85.3	85.3

(END OF REPORT)