

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: P253435

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L93050-1D-UNV-W2A-W-4 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3898.9 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

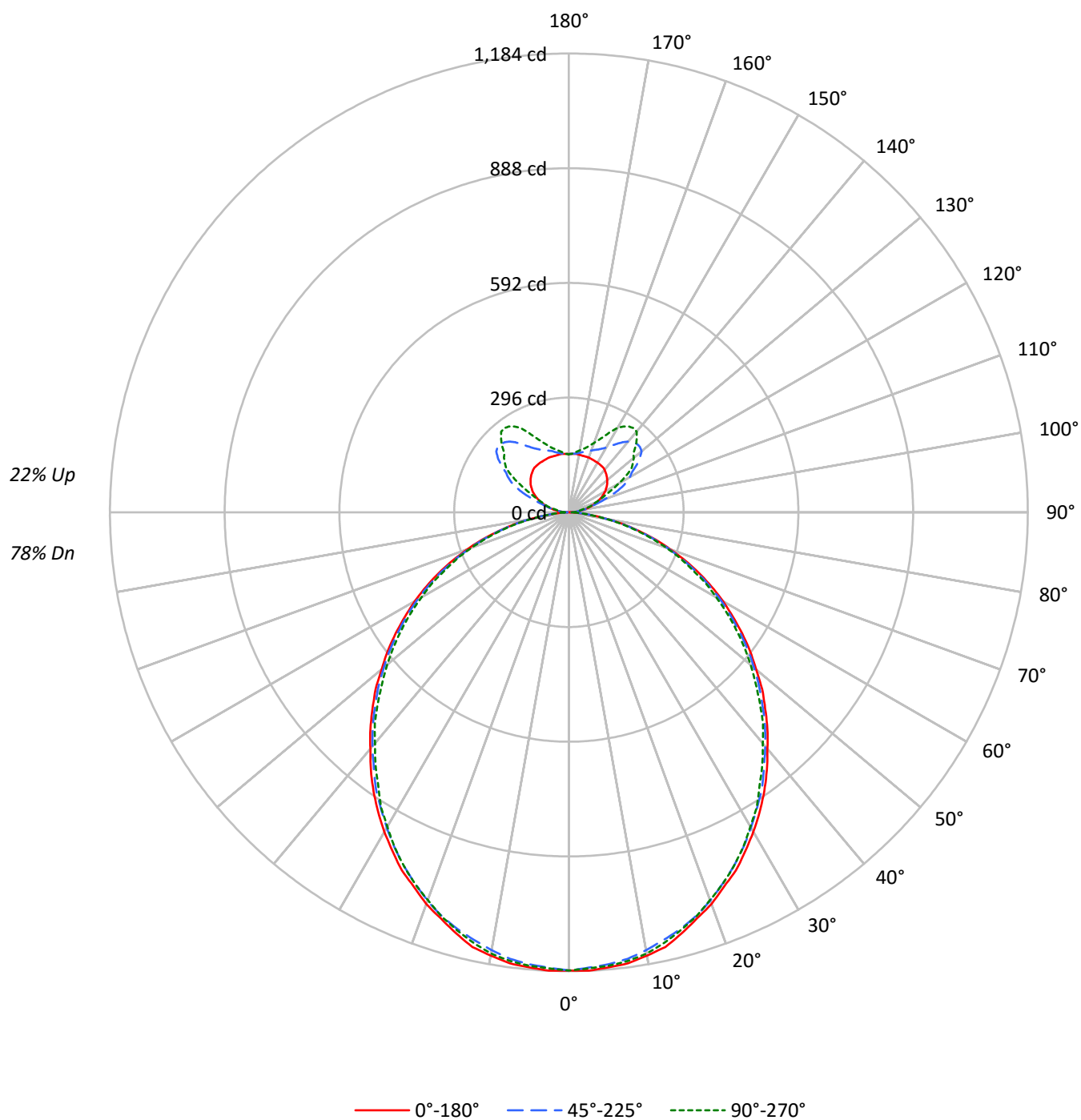
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	89	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	68	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	47	43	40		
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9545	9545	9545
5°	9549	9486	9518
10°	9520	9404	9475
15°	9400	9302	9328
20°	9241	9161	9147
25°	9082	8971	8971
30°	8873	8757	8728
35°	8660	8560	8453
40°	8399	8309	8202
45°	8176	8068	7953
50°	7917	7829	7693
55°	7679	7558	7405
60°	7414	7288	7088
65°	7077	6928	6705
70°	6559	6411	6302
75°	5852	5777	5608
80°	4775	4742	4523
85°	2881	3103	3168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	2.9
10°-20°	315.1	8.1
20°-30°	465.2	11.9
30°-40°	543.2	13.9
40°-50°	545.8	14.0
50°-60°	480.5	12.3
60°-70°	357.6	9.2
70°-80°	195.9	5.0
80°-90°	44.6	1.1
90°-100°	22.4	0.6
100°-110°	70.7	1.8
110°-120°	133.6	3.4
120°-130°	168.4	4.3
130°-140°	165.5	4.2
140°-150°	132.9	3.4
150°-160°	84.8	2.2
160°-170°	46.3	1.2
170°-180°	14.7	0.4
0°-30°	891.8	22.9
0°-40°	1435.1	36.8
0°-60°	2461.3	63.1
0°-90°	3059.4	78.5
90°-120°	226.7	5.8
90°-150°	693.6	17.8
90°-180°	839.0	21.5
0°-180°	3898.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1178	1178	1171	1175	1174	112
15°	1125	1120	1113	1118	1116	317
25°	1020	1013	1007	1008	1007	469
35°	879	876	869	862	858	549
45°	716	714	707	700	697	553
55°	546	546	537	529	526	488
65°	370	367	363	354	351	366
75°	188	188	185	183	180	200
85°	31	35	34	34	34	41
90°	2	3	4	5	5	3
95°	21	20	20	21	22	21
105°	59	94	60	60	55	62
115°	93	188	148	114	102	92
125°	120	191	213	197	197	107
135°	137	171	249	251	244	106
145°	146	165	216	261	270	92
155°	149	160	179	205	216	69
165°	150	155	163	170	173	43
175°	151	152	152	153	153	14
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.3	1182.3	1182.3	1182.3	1182.3
2.5°	1183.8	1183.0	1176.0	1181.5	1177.6
5°	1178.4	1177.6	1170.6	1175.3	1174.5
7.5°	1173.7	1167.5	1162.0	1165.9	1167.5
10°	1161.3	1153.5	1147.2	1155.8	1155.8
12.5°	1148.8	1138.7	1130.1	1141.0	1137.9
15°	1124.7	1120.0	1113.0	1118.4	1116.1
17.5°	1099.0	1099.0	1092.0	1095.1	1092.8
20°	1075.6	1074.1	1066.3	1069.4	1064.7
22.5°	1045.3	1045.3	1036.7	1039.1	1037.5
25°	1019.6	1012.6	1007.1	1007.9	1007.1
27.5°	985.4	981.5	974.5	976.0	973.7
30°	951.9	946.4	939.4	941.8	936.3
32.5°	916.1	912.2	903.6	902.9	902.1
35°	878.7	875.6	868.6	861.6	857.7
37.5°	839.0	838.3	826.6	823.5	819.6
40°	797.0	797.8	788.4	783.0	778.3
42.5°	758.1	755.0	748.7	741.7	741.0
45°	716.1	714.5	706.7	700.5	696.6
47.5°	676.4	674.0	666.2	659.2	653.0
50°	630.4	632.0	623.4	615.7	612.5
52.5°	589.2	590.7	581.4	572.8	569.7
55°	545.6	546.4	537.0	529.3	526.1
57.5°	501.2	502.0	494.2	487.2	483.3
60°	459.2	456.9	451.4	442.9	439.0
62.5°	414.1	414.1	406.3	399.3	399.3
65°	370.5	367.4	362.7	354.1	351.0
67.5°	324.6	322.2	316.8	310.6	311.3
70°	277.9	276.3	271.6	267.7	267.0
72.5°	235.1	231.9	228.8	224.9	223.4
75°	187.6	187.6	185.2	182.9	179.8
77.5°	146.3	144.8	143.2	140.9	139.3
80°	102.7	102.7	102.0	99.6	97.3
82.5°	64.6	66.2	64.6	63.8	63.8
85°	31.1	35.0	33.5	34.2	34.2
87.5°	10.1	11.7	14.0	14.8	14.8
90°	1.6	3.1	3.9	4.7	4.7
92.5°	10.9	11.7	14.8	14.8	15.6
95°	21.0	19.5	19.5	21.0	21.8
97.5°	30.4	31.1	24.9	24.9	25.7
100°	39.7	49.0	38.1	31.1	30.4
102.5°	49.0	71.6	49.0	42.8	38.9
105°	59.2	94.2	59.9	59.9	55.3
107.5°	67.7	115.2	77.1	63.0	63.8
110°	77.1	142.4	98.1	77.1	72.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.6	168.9	123.8	92.6	86.4
115°	93.4	187.6	147.9	113.6	102.0
117.5°	100.4	196.1	166.6	137.0	123.8
120°	108.2	199.3	181.3	161.1	147.9
122.5°	113.6	196.9	193.0	184.5	174.3
125°	119.9	190.7	213.3	196.9	196.9
127.5°	124.5	183.7	231.2	209.4	207.8
130°	129.2	177.5	244.4	217.2	218.7
132.5°	133.1	173.6	249.1	235.1	224.9
135°	137.0	171.2	249.1	251.4	244.4
137.5°	140.1	169.7	245.2	263.1	259.2
140°	143.2	168.1	238.2	267.0	271.6
142.5°	145.5	166.6	228.0	266.2	274.0
145°	146.3	165.0	215.6	260.7	270.1
147.5°	147.1	163.4	203.1	251.4	262.3
150°	147.9	162.7	193.0	236.6	251.4
152.5°	147.9	161.1	185.2	218.7	235.1
155°	148.7	159.6	179.0	204.7	216.4
157.5°	149.4	158.0	174.3	193.0	202.4
160°	150.2	156.4	169.7	184.5	190.7
162.5°	150.2	155.7	166.6	176.7	180.6
165°	150.2	154.9	163.4	170.5	172.8
167.5°	150.2	154.1	158.8	165.0	167.3
170°	151.0	153.3	155.7	160.3	162.7
172.5°	151.8	152.6	153.3	156.4	158.0
175°	151.0	151.8	151.8	153.3	153.3
177.5°	151.0	151.0	151.0	151.8	151.0
180°	150.2	150.2	150.2	150.2	150.2

(END OF REPORT)