

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: P253433

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253433
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-50L83050-1D-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, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318.5 lumens
Efficiency: N/A
Efficacy: 100.0 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

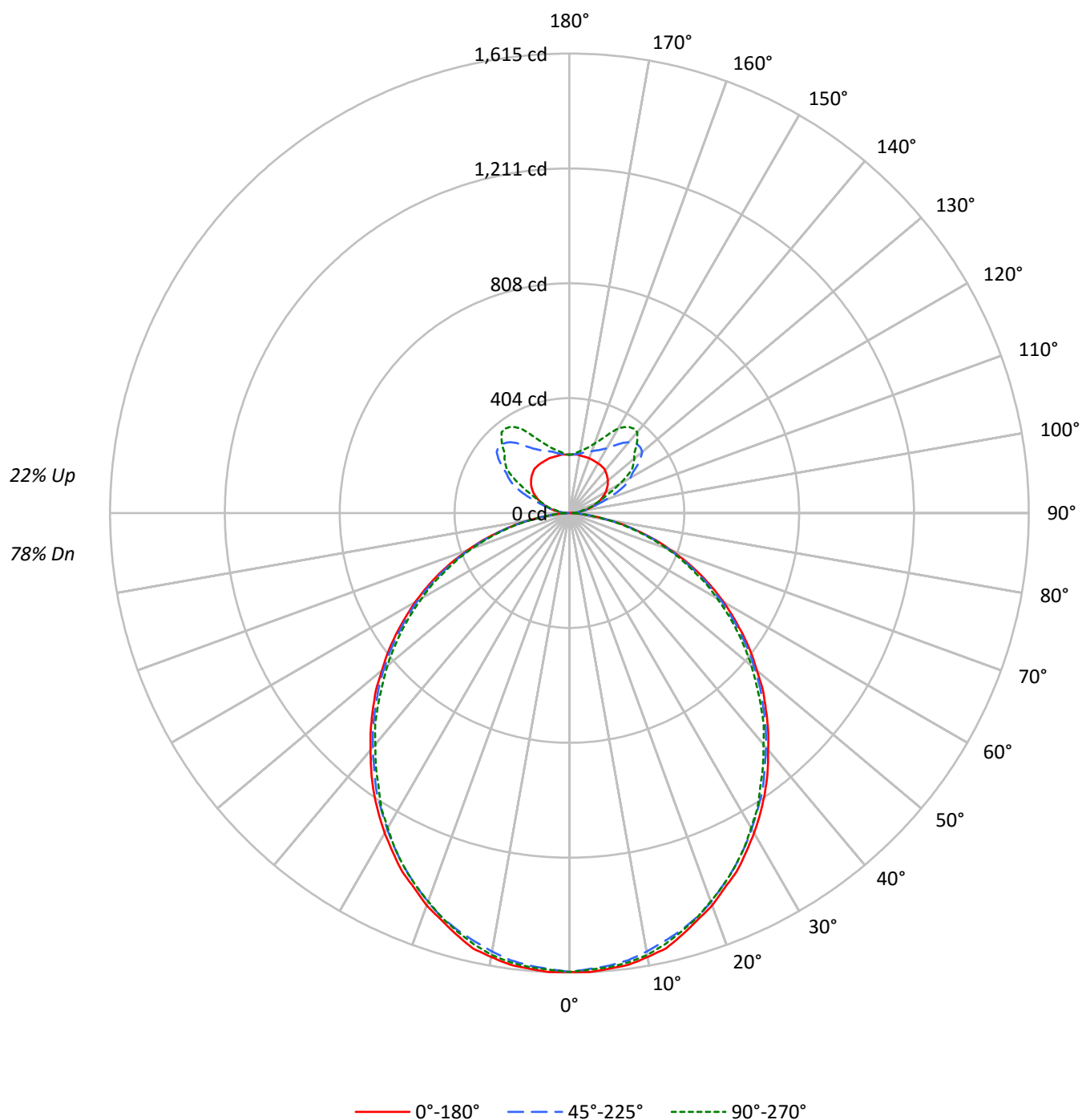
Input Watts (W): 53.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13019	13019	13019
5°	13026	12940	12983
10°	12986	12828	12924
15°	12822	12689	12725
20°	12606	12496	12478
25°	12389	12237	12237
30°	12104	11946	11906
35°	11813	11677	11531
40°	11457	11334	11189
45°	11152	11006	10848
50°	10801	10680	10495
55°	10476	10311	10101
60°	10114	9943	9668
65°	9654	9452	9146
70°	8946	8745	8596
75°	7982	7882	7651
80°	6513	6467	6169
85°	3937	4233	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.9
10°-20°	429.8	8.1
20°-30°	634.6	11.9
30°-40°	741.0	13.9
40°-50°	744.5	14.0
50°-60°	655.4	12.3
60°-70°	487.8	9.2
70°-80°	267.2	5.0
80°-90°	60.9	1.1
90°-100°	30.5	0.6
100°-110°	96.4	1.8
110°-120°	182.3	3.4
120°-130°	229.8	4.3
130°-140°	225.8	4.2
140°-150°	181.4	3.4
150°-160°	115.7	2.2
160°-170°	63.2	1.2
170°-180°	20.0	0.4
0°-30°	1216.5	22.9
0°-40°	1957.5	36.8
0°-60°	3357.4	63.1
0°-90°	4173.3	78.5
90°-120°	309.2	5.8
90°-150°	946.1	17.8
90°-180°	1145.0	21.5
0°-180°	5318.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1607	1606	1597	1603	1602	153
15°	1534	1528	1518	1526	1522	432
25°	1391	1381	1374	1375	1374	639
35°	1199	1194	1185	1175	1170	749
45°	977	975	964	956	950	754
55°	744	745	733	722	718	665
65°	505	501	495	483	479	499
75°	256	256	253	250	245	273
85°	42	48	46	47	47	56
90°	2	4	5	6	6	5
95°	29	26	26	29	30	28
105°	81	128	82	82	75	84
115°	127	256	202	155	139	126
125°	164	260	291	269	269	146
135°	187	234	340	343	333	144
145°	200	225	294	356	368	125
155°	203	218	244	279	295	94
165°	205	211	223	232	236	58
175°	206	207	207	209	209	20
180°	205	205	205	205	205	



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CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.7	1612.7	1612.7	1612.7	1612.7
2.5°	1614.8	1613.8	1604.2	1611.7	1606.3
5°	1607.4	1606.3	1596.8	1603.2	1602.1
7.5°	1601.0	1592.5	1585.1	1590.4	1592.5
10°	1584.1	1573.4	1564.9	1576.6	1576.6
12.5°	1567.1	1553.3	1541.6	1556.5	1552.2
15°	1534.2	1527.8	1518.2	1525.7	1522.5
17.5°	1499.1	1499.1	1489.6	1493.8	1490.6
20°	1467.3	1465.1	1454.5	1458.8	1452.4
22.5°	1425.9	1425.9	1414.2	1417.4	1415.2
25°	1390.8	1381.3	1373.8	1374.9	1373.8
27.5°	1344.1	1338.8	1329.2	1331.4	1328.2
30°	1298.5	1291.0	1281.5	1284.7	1277.2
32.5°	1249.6	1244.3	1232.6	1231.6	1230.5
35°	1198.7	1194.4	1184.9	1175.3	1170.0
37.5°	1144.5	1143.4	1127.5	1123.3	1118.0
40°	1087.2	1088.2	1075.5	1068.1	1061.7
42.5°	1034.1	1029.8	1021.4	1011.8	1010.7
45°	976.8	974.6	964.0	955.5	950.2
47.5°	922.6	919.4	908.8	899.3	890.8
50°	860.0	862.1	850.4	839.8	835.6
52.5°	803.7	805.8	793.1	781.4	777.2
55°	744.3	745.3	732.6	722.0	717.7
57.5°	683.7	684.8	674.2	664.6	659.3
60°	626.4	623.2	615.8	604.1	598.8
62.5°	564.8	564.8	554.2	544.7	544.7
65°	505.4	501.1	494.8	483.1	478.8
67.5°	442.7	439.5	432.1	423.6	424.7
70°	379.0	376.9	370.5	365.2	364.2
72.5°	320.6	316.4	312.1	306.8	304.7
75°	255.9	255.9	252.7	249.5	245.3
77.5°	199.6	197.5	195.4	192.2	190.0
80°	140.1	140.1	139.1	135.9	132.7
82.5°	88.1	90.2	88.1	87.1	87.1
85°	42.5	47.8	45.7	46.7	46.7
87.5°	13.8	15.9	19.1	20.2	20.2
90°	2.1	4.2	5.3	6.4	6.4
92.5°	14.9	15.9	20.2	20.2	21.2
95°	28.7	26.5	26.5	28.7	29.7
97.5°	41.4	42.5	34.0	34.0	35.0
100°	54.1	66.9	52.0	42.5	41.4
102.5°	66.9	97.7	66.9	58.4	53.1
105°	80.7	128.5	81.8	81.8	75.4
107.5°	92.4	157.1	105.1	86.0	87.1
110°	105.1	194.3	133.8	105.1	98.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116.8	230.4	168.8	126.3	117.8
115°	127.4	255.9	201.7	155.0	139.1
117.5°	137.0	267.5	227.2	186.9	168.8
120°	147.6	271.8	247.4	219.8	201.7
122.5°	155.0	268.6	263.3	251.6	237.8
125°	163.5	260.1	290.9	268.6	268.6
127.5°	169.9	250.6	315.3	285.6	283.5
130°	176.2	242.1	333.4	296.2	298.3
132.5°	181.6	236.8	339.7	320.6	306.8
135°	186.9	233.6	339.7	342.9	333.4
137.5°	191.1	231.5	334.4	358.9	353.5
140°	195.4	229.3	324.9	364.2	370.5
142.5°	198.5	227.2	311.1	363.1	373.7
145°	199.6	225.1	294.1	355.7	368.4
147.5°	200.7	223.0	277.1	342.9	357.8
150°	201.7	221.9	263.3	322.8	342.9
152.5°	201.7	219.8	252.7	298.3	320.6
155°	202.8	217.6	244.2	279.2	295.2
157.5°	203.8	215.5	237.8	263.3	276.0
160°	204.9	213.4	231.5	251.6	260.1
162.5°	204.9	212.3	227.2	241.0	246.3
165°	204.9	211.3	223.0	232.5	235.7
167.5°	204.9	210.2	216.6	225.1	228.3
170°	206.0	209.2	212.3	218.7	221.9
172.5°	207.0	208.1	209.2	213.4	215.5
175°	206.0	207.0	207.0	209.2	209.2
177.5°	206.0	206.0	206.0	207.0	206.0
180°	204.9	204.9	204.9	204.9	204.9

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