

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: P253293

Luminaire Tested: **J2-WL-50L830-1D-UNV-STD-DLED-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L830-1D-UNV-STD-DLED-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4391.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

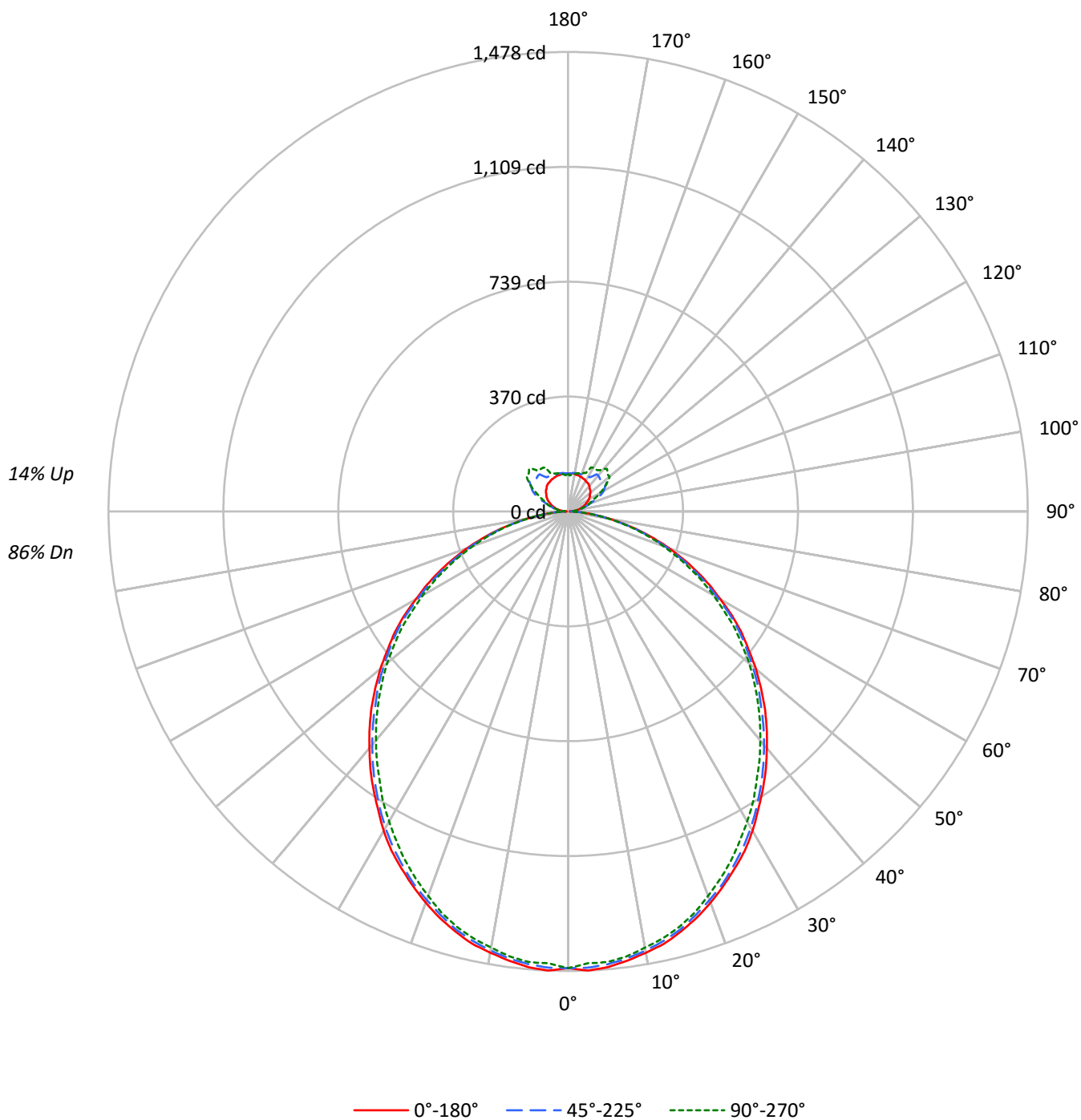
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11857	11857	11857
5°	11921	11846	11789
10°	11812	11755	11679
15°	11694	11636	11559
20°	11503	11424	11304
25°	11288	11205	11040
30°	11057	10948	10732
35°	10753	10639	10411
40°	10473	10327	10132
45°	10209	9998	9839
50°	9892	9717	9543
55°	9586	9455	9195
60°	9126	8977	8716
65°	8718	8497	8231
70°	8148	7928	7655
75°	7371	7227	7009
80°	6248	6137	6030
85°	4724	4937	4724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.2
10°-20°	390.9	8.9
20°-30°	576.5	13.1
30°-40°	672.0	15.3
40°-50°	675.6	15.4
50°-60°	595.0	13.5
60°-70°	439.2	10.0
70°-80°	243.3	5.5
80°-90°	63.3	1.4
90°-100°	22.5	0.5
100°-110°	58.0	1.3
110°-120°	94.3	2.1
120°-130°	117.8	2.7
130°-140°	110.6	2.5
140°-150°	87.2	2.0
150°-160°	60.1	1.4
160°-170°	35.4	0.8
170°-180°	11.7	0.3
0°-30°	1105.8	25.2
0°-40°	1777.7	40.5
0°-60°	3048.3	69.4
0°-90°	3794.1	86.4
90°-120°	174.8	4.0
90°-150°	490.4	11.2
90°-180°	598.0	13.6
0°-180°	4391.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1471	1455	1462	1457	1455	139
15°	1399	1385	1392	1385	1383	394
25°	1267	1256	1258	1242	1239	584
35°	1091	1082	1080	1061	1056	683
45°	894	885	876	864	862	689
55°	681	674	672	658	653	607
65°	456	452	445	436	431	451
75°	236	234	232	225	225	250
85°	51	53	53	51	51	60
90°	5	9	9	9	9	5
95°	16	18	21	21	21	17
105°	44	60	53	58	53	46
115°	65	104	107	93	90	65
125°	86	118	146	151	148	76
135°	100	111	146	181	178	77
145°	111	116	139	160	162	69
155°	116	120	127	137	137	54
165°	120	120	127	130	127	34
175°	123	123	123	123	118	12
180°	120	120	120	120	120	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.7	1468.7	1468.7	1468.7	1468.7
2.5°	1478.0	1461.8	1468.7	1464.1	1454.8
5°	1471.0	1454.8	1461.8	1457.1	1454.8
7.5°	1457.1	1443.2	1450.2	1445.5	1443.2
10°	1440.9	1427.0	1434.0	1427.0	1424.7
12.5°	1424.7	1408.5	1415.4	1406.2	1406.2
15°	1399.2	1385.3	1392.3	1385.3	1383.0
17.5°	1371.4	1357.5	1362.1	1355.2	1352.9
20°	1339.0	1325.1	1329.7	1320.4	1315.8
22.5°	1304.2	1292.6	1297.3	1281.1	1278.7
25°	1267.2	1255.6	1257.9	1241.7	1239.4
27.5°	1230.1	1213.9	1218.5	1200.0	1195.3
30°	1186.1	1172.2	1174.5	1156.0	1151.3
32.5°	1137.4	1128.2	1128.2	1109.6	1107.3
35°	1091.1	1081.8	1079.5	1061.0	1056.4
37.5°	1044.8	1033.2	1030.9	1010.0	1010.0
40°	993.8	984.5	979.9	963.7	961.4
42.5°	945.2	933.6	928.9	912.7	912.7
45°	894.2	884.9	875.7	864.1	861.8
47.5°	840.9	831.6	827.0	813.1	810.8
50°	787.6	780.7	773.7	762.1	759.8
52.5°	732.0	727.4	722.8	711.2	704.2
55°	681.1	674.1	671.8	657.9	653.3
57.5°	625.5	618.5	616.2	600.0	593.0
60°	565.2	558.3	556.0	542.1	539.8
62.5°	512.0	505.0	500.4	491.1	486.5
65°	456.4	451.7	444.8	435.5	430.9
67.5°	400.8	396.1	389.2	382.2	377.6
70°	345.2	340.5	335.9	326.6	324.3
72.5°	289.6	284.9	280.3	275.7	275.7
75°	236.3	234.0	231.7	224.7	224.7
77.5°	183.0	180.7	178.4	176.1	176.1
80°	134.4	134.4	132.0	129.7	129.7
82.5°	90.3	90.3	90.3	88.0	88.0
85°	51.0	53.3	53.3	51.0	51.0
87.5°	20.8	20.8	20.8	20.8	20.8
90°	4.6	9.3	9.3	9.3	9.3
92.5°	9.3	11.6	13.9	16.2	13.9
95°	16.2	18.5	20.8	20.8	20.8
97.5°	25.5	27.8	27.8	27.8	27.8
100°	32.4	37.1	34.7	37.1	34.7
102.5°	39.4	48.6	48.6	44.0	44.0
105°	44.0	60.2	53.3	57.9	53.3
107.5°	48.6	74.1	62.5	64.9	67.2
110°	55.6	83.4	76.4	69.5	71.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.2	101.9	90.3	81.1	78.8
115°	64.9	104.2	106.6	92.7	90.3
117.5°	71.8	104.2	120.5	108.9	104.2
120°	76.4	111.2	132.0	122.8	118.1
122.5°	81.1	115.8	139.0	139.0	134.4
125°	85.7	118.1	145.9	150.6	148.3
127.5°	88.0	111.2	157.5	164.5	162.2
130°	92.7	106.6	155.2	166.8	173.7
132.5°	97.3	108.9	150.6	169.1	173.7
135°	99.6	111.2	145.9	180.7	178.4
137.5°	101.9	113.5	148.3	173.7	185.3
140°	106.6	113.5	150.6	164.5	178.4
142.5°	108.9	115.8	150.6	157.5	166.8
145°	111.2	115.8	139.0	159.8	162.2
147.5°	111.2	118.1	129.7	162.2	162.2
150°	113.5	118.1	129.7	162.2	162.2
152.5°	115.8	120.5	127.4	141.3	159.8
155°	115.8	120.5	127.4	136.7	136.7
157.5°	118.1	120.5	127.4	134.4	134.4
160°	118.1	120.5	127.4	132.0	129.7
162.5°	120.5	120.5	125.1	129.7	127.4
165°	120.5	120.5	127.4	129.7	127.4
167.5°	120.5	122.8	125.1	127.4	125.1
170°	122.8	122.8	125.1	125.1	122.8
172.5°	122.8	122.8	125.1	122.8	120.5
175°	122.8	122.8	122.8	122.8	118.1
177.5°	122.8	120.5	122.8	120.5	115.8
180°	120.5	120.5	120.5	120.5	120.5

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