

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: P253301

Luminaire Tested: **J2-WL-50L840-1D-UNV-STD-DLED-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253301
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-50L840-1D-UNV-STD-DLED-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4655.3 lumens
Efficiency: N/A
Efficacy: 108.5 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

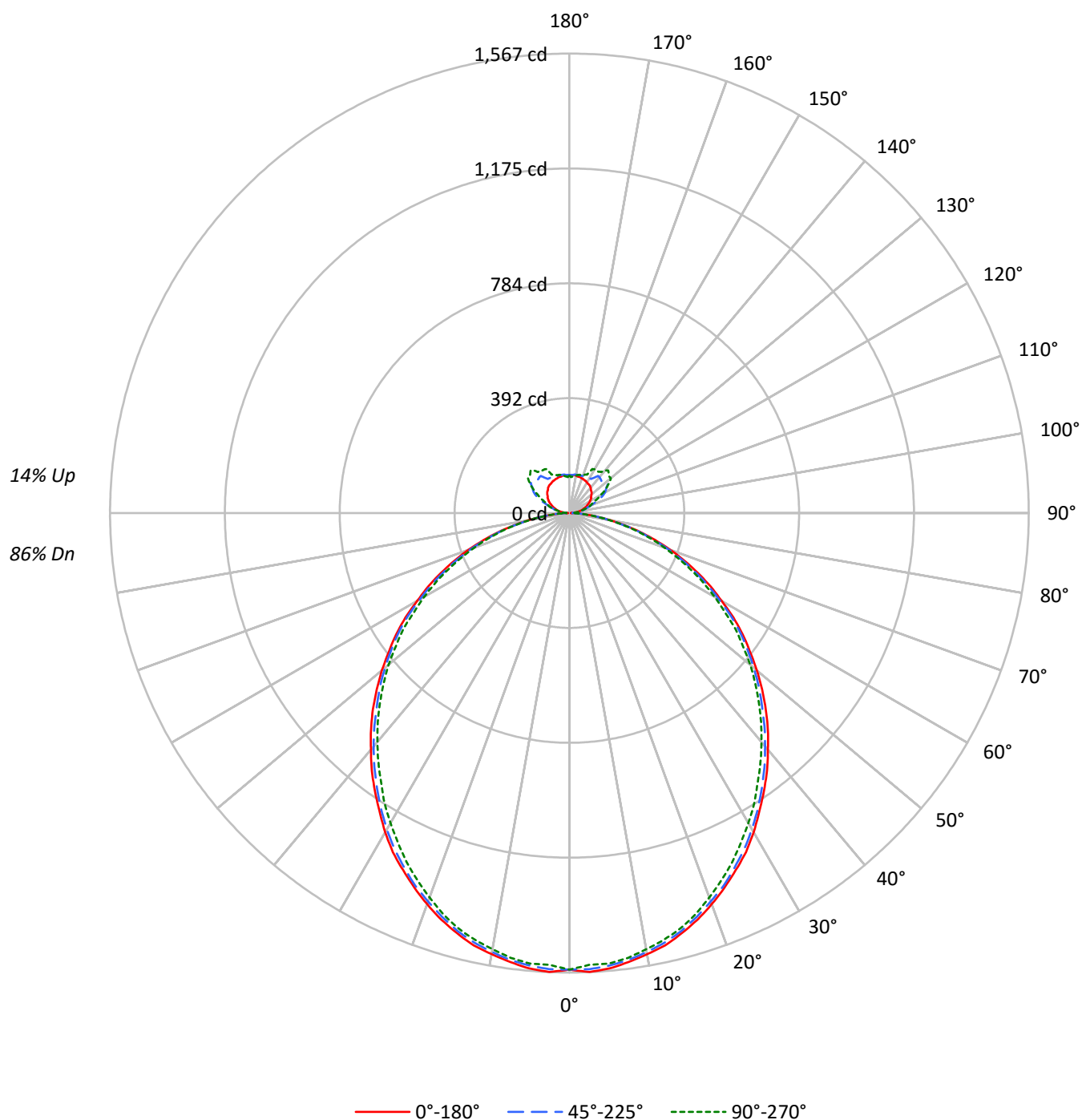
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104		96	96	96		86
1	106	101	97	94	102	98	94	91	91	88	85		85	83	80		73
2	97	89	82	77	93	86	80	75	80	75	71		75	71	67		61
3	88	78	70	64	85	75	68	62	71	65	60		66	61	57		52
4	81	69	61	54	77	67	59	53	63	56	51		59	53	49		44
5	74	62	53	47	71	60	52	46	56	49	44		53	47	42		38
6	69	56	47	41	66	54	46	40	51	44	39		48	42	37		34
7	64	51	42	36	61	49	41	36	46	39	34		44	38	33		30
8	59	46	38	32	57	45	37	32	42	36	31		40	34	30		27
9	55	42	34	29	53	41	34	29	39	32	28		37	31	27		24
10	52	39	31	26	50	38	31	26	36	30	25		34	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12568	12568	12568
5°	12636	12557	12497
10°	12521	12460	12380
15°	12396	12334	12252
20°	12193	12109	11983
25°	11965	11877	11702
30°	11719	11606	11376
35°	11399	11277	11035
40°	11101	10946	10740
45°	10821	10597	10429
50°	10486	10301	10115
55°	10161	10023	9747
60°	9675	9515	9237
65°	9240	9007	8724
70°	8637	8405	8115
75°	7813	7661	7430
80°	6620	6509	6392
85°	5002	5233	5002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.2
10°-20°	414.3	8.9
20°-30°	611.1	13.1
30°-40°	712.3	15.3
40°-50°	716.1	15.4
50°-60°	630.7	13.5
60°-70°	465.5	10.0
70°-80°	257.9	5.5
80°-90°	67.1	1.4
90°-100°	23.9	0.5
100°-110°	61.6	1.3
110°-120°	99.9	2.1
120°-130°	124.8	2.7
130°-140°	117.3	2.5
140°-150°	92.4	2.0
150°-160°	63.7	1.4
160°-170°	37.6	0.8
170°-180°	12.4	0.3
0°-30°	1172.1	25.2
0°-40°	1884.4	40.5
0°-60°	3231.2	69.4
0°-90°	4021.8	86.4
90°-120°	185.3	4.0
90°-150°	519.9	11.2
90°-180°	634.0	13.6
0°-180°	4655.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1559	1542	1550	1544	1542	148
15°	1483	1468	1476	1468	1466	418
25°	1343	1331	1333	1316	1314	619
35°	1157	1147	1144	1125	1120	724
45°	948	938	928	916	914	731
55°	722	715	712	697	692	644
65°	484	479	472	462	457	478
75°	250	248	246	238	238	265
85°	54	56	56	54	54	63
90°	5	10	10	10	10	6
95°	17	20	22	22	22	18
105°	47	64	56	61	56	49
115°	69	110	113	98	96	69
125°	91	125	155	160	157	81
135°	106	118	155	192	189	82
145°	118	123	147	169	172	73
155°	123	128	135	145	145	57
165°	128	128	135	138	135	36
175°	130	130	130	130	125	12
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1566.6	1549.5	1556.8	1551.9	1542.1
5°	1559.3	1542.1	1549.5	1544.5	1542.1
7.5°	1544.5	1529.8	1537.2	1532.3	1529.8
10°	1527.4	1512.6	1520.0	1512.6	1510.2
12.5°	1510.2	1493.0	1500.3	1490.5	1490.5
15°	1483.2	1468.4	1475.8	1468.4	1466.0
17.5°	1453.7	1439.0	1443.9	1436.5	1434.0
20°	1419.3	1404.6	1409.5	1399.7	1394.8
22.5°	1382.5	1370.2	1375.1	1357.9	1355.5
25°	1343.2	1330.9	1333.4	1316.2	1313.7
27.5°	1303.9	1286.7	1291.6	1272.0	1267.1
30°	1257.2	1242.5	1245.0	1225.3	1220.4
32.5°	1205.7	1195.9	1195.9	1176.2	1173.8
35°	1156.6	1146.7	1144.3	1124.6	1119.7
37.5°	1107.5	1095.2	1092.7	1070.6	1070.6
40°	1053.4	1043.6	1038.7	1021.5	1019.1
42.5°	1001.9	989.6	984.7	967.5	967.5
45°	947.8	938.0	928.2	915.9	913.5
47.5°	891.4	881.5	876.6	861.9	859.4
50°	834.9	827.5	820.2	807.9	805.4
52.5°	776.0	771.0	766.1	753.9	746.5
55°	721.9	714.6	712.1	697.4	692.5
57.5°	663.0	655.6	653.2	636.0	628.6
60°	599.2	591.8	589.3	574.6	572.1
62.5°	542.7	535.3	530.4	520.6	515.7
65°	483.7	478.8	471.5	461.6	456.7
67.5°	424.8	419.9	412.5	405.2	400.3
70°	365.9	361.0	356.1	346.2	343.8
72.5°	306.9	302.0	297.1	292.2	292.2
75°	250.5	248.0	245.6	238.2	238.2
77.5°	194.0	191.5	189.1	186.6	186.6
80°	142.4	142.4	140.0	137.5	137.5
82.5°	95.8	95.8	95.8	93.3	93.3
85°	54.0	56.5	56.5	54.0	54.0
87.5°	22.1	22.1	22.1	22.1	22.1
90°	4.9	9.8	9.8	9.8	9.8
92.5°	9.8	12.3	14.7	17.2	14.7
95°	17.2	19.6	22.1	22.1	22.1
97.5°	27.0	29.5	29.5	29.5	29.5
100°	34.4	39.3	36.8	39.3	36.8
102.5°	41.7	51.6	51.6	46.7	46.7
105°	46.7	63.8	56.5	61.4	56.5
107.5°	51.6	78.6	66.3	68.8	71.2
110°	58.9	88.4	81.0	73.7	76.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.8	108.0	95.8	85.9	83.5
115°	68.8	110.5	113.0	98.2	95.8
117.5°	76.1	110.5	127.7	115.4	110.5
120°	81.0	117.9	140.0	130.1	125.2
122.5°	85.9	122.8	147.3	147.3	142.4
125°	90.9	125.2	154.7	159.6	157.2
127.5°	93.3	117.9	167.0	174.3	171.9
130°	98.2	113.0	164.5	176.8	184.2
132.5°	103.1	115.4	159.6	179.3	184.2
135°	105.6	117.9	154.7	191.5	189.1
137.5°	108.0	120.3	157.2	184.2	196.4
140°	113.0	120.3	159.6	174.3	189.1
142.5°	115.4	122.8	159.6	167.0	176.8
145°	117.9	122.8	147.3	169.4	171.9
147.5°	117.9	125.2	137.5	171.9	171.9
150°	120.3	125.2	137.5	171.9	171.9
152.5°	122.8	127.7	135.1	149.8	169.4
155°	122.8	127.7	135.1	144.9	144.9
157.5°	125.2	127.7	135.1	142.4	142.4
160°	125.2	127.7	135.1	140.0	137.5
162.5°	127.7	127.7	132.6	137.5	135.1
165°	127.7	127.7	135.1	137.5	135.1
167.5°	127.7	130.1	132.6	135.1	132.6
170°	130.1	130.1	132.6	132.6	130.1
172.5°	130.1	130.1	132.6	130.1	127.7
175°	130.1	130.1	130.1	130.1	125.2
177.5°	130.1	127.7	130.1	127.7	122.8
180°	127.7	127.7	127.7	127.7	127.7

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