

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: P253297

Luminaire Tested: **J2-WL-50L835-1D-UNV-STD-DLED-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253297
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-50L835-1D-UNV-STD-DLED-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4567.4 lumens
Efficiency: N/A
Efficacy: 106.5 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

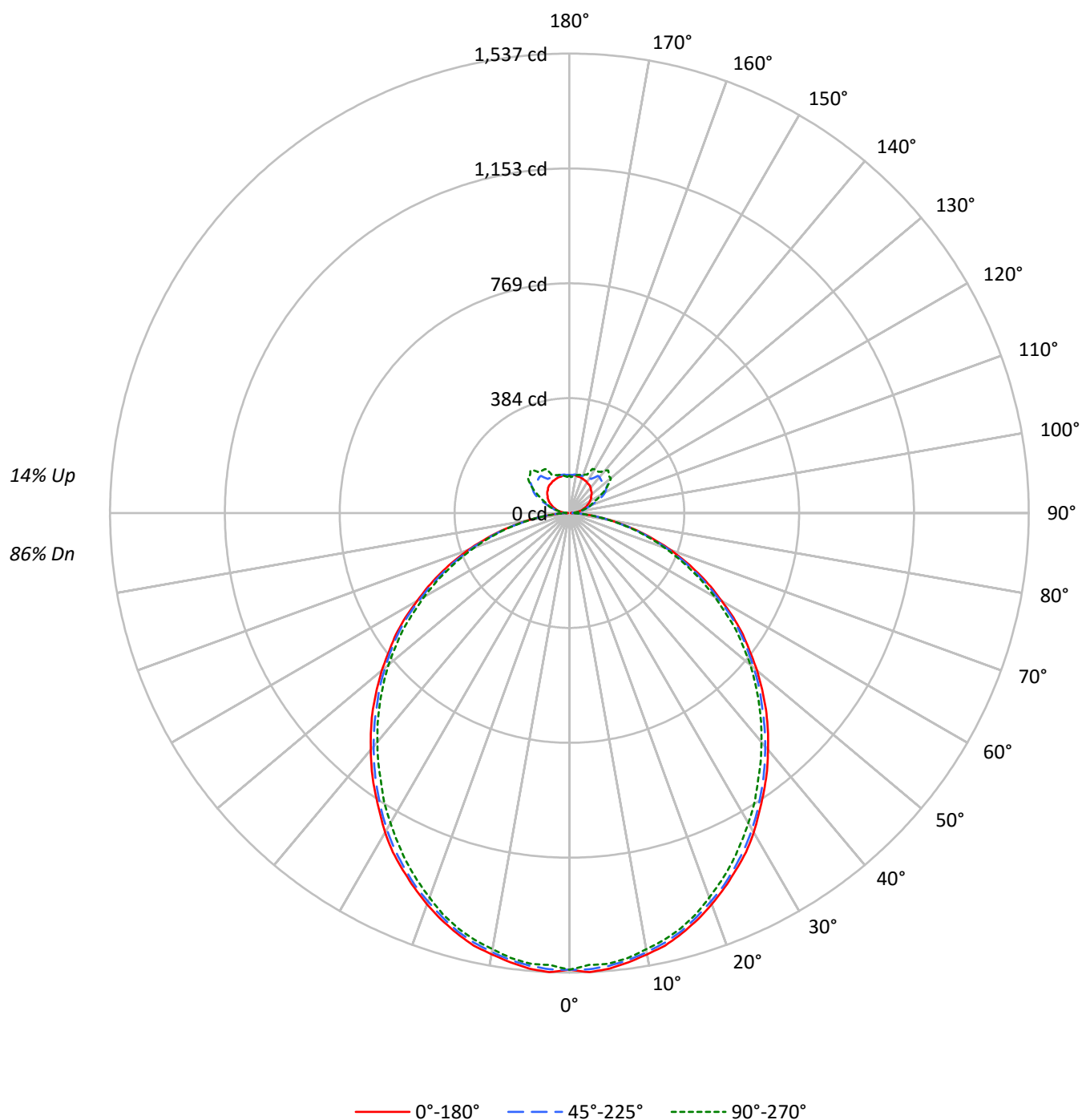
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12331	12331	12331
5°	12398	12319	12261
10°	12284	12225	12146
15°	12162	12101	12021
20°	11963	11881	11756
25°	11738	11653	11481
30°	11498	11387	11162
35°	11183	11064	10827
40°	10893	10740	10536
45°	10618	10397	10232
50°	10287	10106	9924
55°	9969	9834	9562
60°	9492	9336	9063
65°	9066	8837	8560
70°	8474	8245	7962
75°	7664	7514	7289
80°	6495	6383	6272
85°	4909	5132	4909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	3.2
10°-20°	406.5	8.9
20°-30°	599.6	13.1
30°-40°	698.8	15.3
40°-50°	702.6	15.4
50°-60°	618.8	13.5
60°-70°	456.7	10.0
70°-80°	253.0	5.5
80°-90°	65.9	1.4
90°-100°	23.4	0.5
100°-110°	60.4	1.3
110°-120°	98.0	2.1
120°-130°	122.5	2.7
130°-140°	115.1	2.5
140°-150°	90.7	2.0
150°-160°	62.5	1.4
160°-170°	36.8	0.8
170°-180°	12.2	0.3
0°-30°	1150.0	25.2
0°-40°	1848.8	40.5
0°-60°	3170.2	69.4
0°-90°	3945.9	86.4
90°-120°	181.8	4.0
90°-150°	510.0	11.2
90°-180°	622.0	13.6
0°-180°	4567.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1530	1513	1520	1515	1513	145
15°	1455	1441	1448	1441	1438	410
25°	1318	1306	1308	1291	1289	607
35°	1135	1125	1123	1103	1099	710
45°	930	920	911	899	896	717
55°	708	701	699	684	679	631
65°	475	470	463	453	448	469
75°	246	243	241	234	234	260
85°	53	55	55	53	53	62
90°	5	10	10	10	10	6
95°	17	19	22	22	22	18
105°	46	63	55	60	55	48
115°	68	108	111	96	94	68
125°	89	123	152	157	154	79
135°	104	116	152	188	186	80
145°	116	120	145	166	169	72
155°	120	125	132	142	142	56
165°	125	125	132	135	132	35
175°	128	128	128	128	123	12
180°	125	125	125	125	125	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.4	1527.4	1527.4	1527.4	1527.4
2.5°	1537.1	1520.2	1527.4	1522.6	1513.0
5°	1529.9	1513.0	1520.2	1515.4	1513.0
7.5°	1515.4	1500.9	1508.2	1503.4	1500.9
10°	1498.5	1484.1	1491.3	1484.1	1481.7
12.5°	1481.7	1464.8	1472.0	1462.4	1462.4
15°	1455.2	1440.7	1447.9	1440.7	1438.3
17.5°	1426.3	1411.8	1416.6	1409.4	1407.0
20°	1392.5	1378.1	1382.9	1373.3	1368.4
22.5°	1356.4	1344.3	1349.2	1332.3	1329.9
25°	1317.8	1305.8	1308.2	1291.3	1288.9
27.5°	1279.3	1262.4	1267.3	1248.0	1243.2
30°	1233.5	1219.1	1221.5	1202.2	1197.4
32.5°	1182.9	1173.3	1173.3	1154.0	1151.6
35°	1134.7	1125.1	1122.7	1103.4	1098.6
37.5°	1086.6	1074.5	1072.1	1050.4	1050.4
40°	1033.6	1023.9	1019.1	1002.2	999.8
42.5°	983.0	970.9	966.1	949.2	949.2
45°	930.0	920.3	910.7	898.6	896.2
47.5°	874.5	864.9	860.1	845.6	843.2
50°	819.1	811.9	804.7	792.6	790.2
52.5°	761.3	756.5	751.7	739.6	732.4
55°	708.3	701.1	698.7	684.2	679.4
57.5°	650.5	643.3	640.9	624.0	616.8
60°	587.9	580.6	578.2	563.8	561.3
62.5°	532.4	525.2	520.4	510.8	505.9
65°	474.6	469.8	462.6	452.9	448.1
67.5°	416.8	412.0	404.7	397.5	392.7
70°	359.0	354.2	349.3	339.7	337.3
72.5°	301.2	296.3	291.5	286.7	286.7
75°	245.7	243.3	240.9	233.7	233.7
77.5°	190.3	187.9	185.5	183.1	183.1
80°	139.7	139.7	137.3	134.9	134.9
82.5°	94.0	94.0	94.0	91.6	91.6
85°	53.0	55.4	55.4	53.0	53.0
87.5°	21.7	21.7	21.7	21.7	21.7
90°	4.8	9.6	9.6	9.6	9.6
92.5°	9.6	12.0	14.5	16.9	14.5
95°	16.9	19.3	21.7	21.7	21.7
97.5°	26.5	28.9	28.9	28.9	28.9
100°	33.7	38.5	36.1	38.5	36.1
102.5°	41.0	50.6	50.6	45.8	45.8
105°	45.8	62.6	55.4	60.2	55.4
107.5°	50.6	77.1	65.0	67.5	69.9
110°	57.8	86.7	79.5	72.3	74.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62.6	106.0	94.0	84.3	81.9
115°	67.5	108.4	110.8	96.4	94.0
117.5°	74.7	108.4	125.3	113.2	108.4
120°	79.5	115.6	137.3	127.7	122.9
122.5°	84.3	120.5	144.6	144.6	139.7
125°	89.1	122.9	151.8	156.6	154.2
127.5°	91.6	115.6	163.8	171.1	168.6
130°	96.4	110.8	161.4	173.5	180.7
132.5°	101.2	113.2	156.6	175.9	180.7
135°	103.6	115.6	151.8	187.9	185.5
137.5°	106.0	118.1	154.2	180.7	192.7
140°	110.8	118.1	156.6	171.1	185.5
142.5°	113.2	120.5	156.6	163.8	173.5
145°	115.6	120.5	144.6	166.2	168.6
147.5°	115.6	122.9	134.9	168.6	168.6
150°	118.1	122.9	134.9	168.6	168.6
152.5°	120.5	125.3	132.5	147.0	166.2
155°	120.5	125.3	132.5	142.1	142.1
157.5°	122.9	125.3	132.5	139.7	139.7
160°	122.9	125.3	132.5	137.3	134.9
162.5°	125.3	125.3	130.1	134.9	132.5
165°	125.3	125.3	132.5	134.9	132.5
167.5°	125.3	127.7	130.1	132.5	130.1
170°	127.7	127.7	130.1	130.1	127.7
172.5°	127.7	127.7	130.1	127.7	125.3
175°	127.7	127.7	127.7	127.7	122.9
177.5°	127.7	125.3	127.7	125.3	120.5
180°	125.3	125.3	125.3	125.3	125.3

(END OF REPORT)