

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: P253377

Luminaire Tested: **J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253377
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-30L83050-1D-UNV-W2A-DLED-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
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: 2907.5 lumens
Efficiency: N/A
Efficacy: 107.3 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

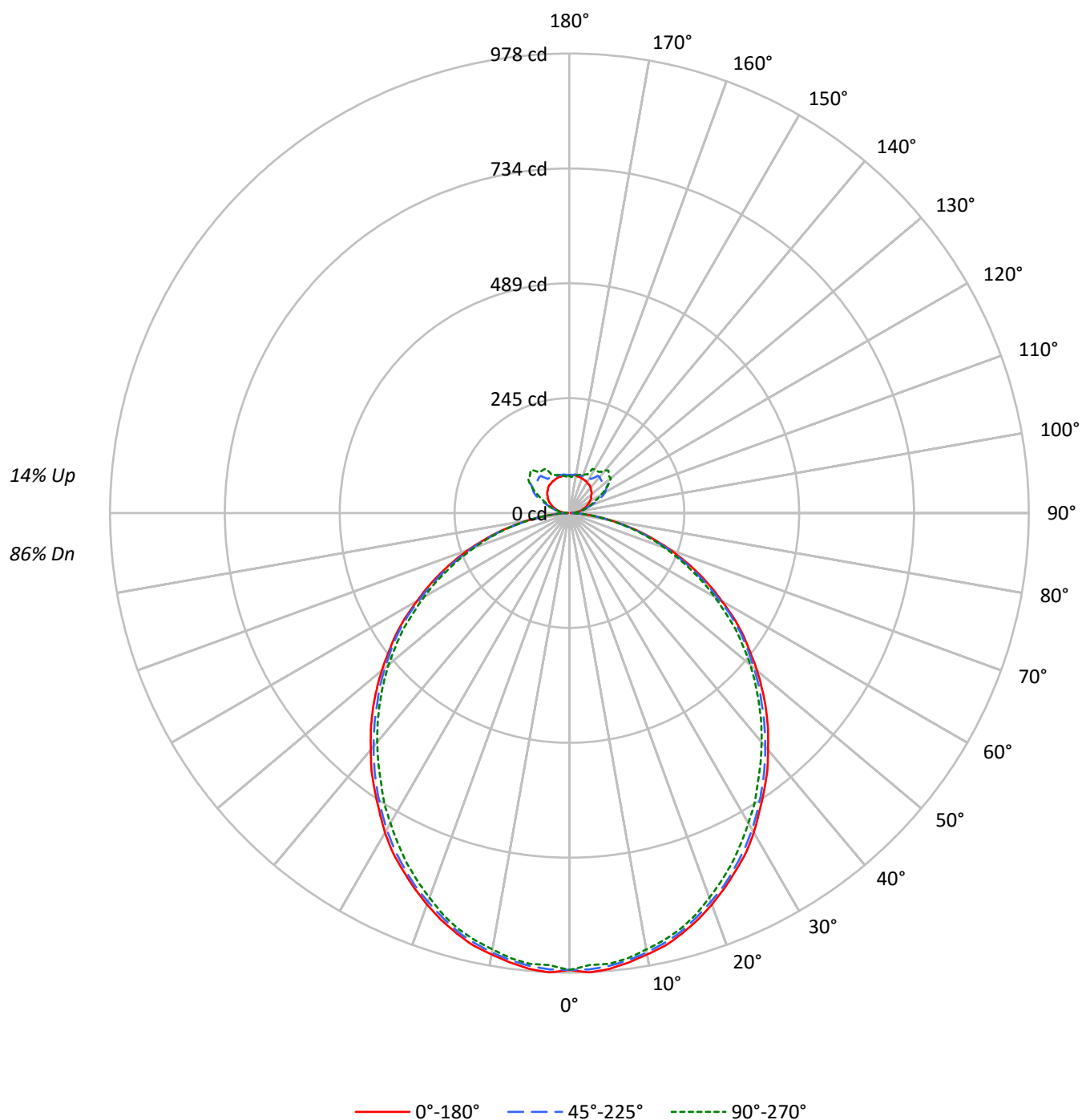
Input Watts (W): 27.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7849	7849	7849
5°	7892	7842	7805
10°	7820	7782	7732
15°	7742	7703	7652
20°	7616	7563	7484
25°	7473	7418	7309
30°	7320	7249	7105
35°	7119	7044	6892
40°	6933	6836	6708
45°	6759	6618	6513
50°	6548	6433	6317
55°	6346	6260	6087
60°	6042	5943	5769
65°	5771	5626	5450
70°	5393	5249	5068
75°	4878	4785	4641
80°	4138	4063	3994
85°	3122	3270	3122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	3.2
10°-20°	258.8	8.9
20°-30°	381.7	13.1
30°-40°	444.9	15.3
40°-50°	447.3	15.4
50°-60°	393.9	13.5
60°-70°	290.8	10.0
70°-80°	161.1	5.5
80°-90°	41.9	1.4
90°-100°	14.9	0.5
100°-110°	38.4	1.3
110°-120°	62.4	2.1
120°-130°	78.0	2.7
130°-140°	73.2	2.5
140°-150°	57.7	2.0
150°-160°	39.8	1.4
160°-170°	23.5	0.8
170°-180°	7.8	0.3
0°-30°	732.1	25.2
0°-40°	1176.9	40.5
0°-60°	2018.1	69.4
0°-90°	2511.9	86.4
90°-120°	115.7	4.0
90°-150°	324.7	11.2
90°-180°	396.0	13.6
0°-180°	2907.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	974	963	968	965	963	92
15°	926	917	922	917	916	261
25°	839	831	833	822	820	387
35°	722	716	715	702	699	452
45°	592	586	580	572	570	456
55°	451	446	445	436	432	402
65°	302	299	294	288	285	299
75°	156	155	153	149	149	166
85°	34	35	35	34	34	39
90°	3	6	6	6	6	4
95°	11	12	14	14	14	11
105°	29	40	35	38	35	31
115°	43	69	70	61	60	43
125°	57	78	97	100	98	50
135°	66	74	97	120	118	51
145°	74	77	92	106	107	46
155°	77	80	84	90	90	36
165°	80	80	84	86	84	23
175°	81	81	81	81	78	8
180°	80	80	80	80	80	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.3	972.3	972.3	972.3	972.3
2.5°	978.5	967.7	972.3	969.3	963.1
5°	973.9	963.1	967.7	964.7	963.1
7.5°	964.7	955.5	960.1	957.0	955.5
10°	953.9	944.7	949.3	944.7	943.2
12.5°	943.2	932.5	937.1	930.9	930.9
15°	926.3	917.1	921.7	917.1	915.6
17.5°	907.9	898.7	901.8	897.2	895.7
20°	886.5	877.2	880.3	874.2	871.1
22.5°	863.4	855.8	858.8	848.1	846.6
25°	838.9	831.2	832.8	822.0	820.5
27.5°	814.4	803.6	806.7	794.4	791.4
30°	785.2	776.0	777.6	765.3	762.2
32.5°	753.0	746.9	746.9	734.6	733.1
35°	722.4	716.2	714.7	702.4	699.3
37.5°	691.7	684.0	682.5	668.7	668.7
40°	657.9	651.8	648.7	638.0	636.5
42.5°	625.7	618.1	615.0	604.3	604.3
45°	592.0	585.9	579.7	572.1	570.5
47.5°	556.7	550.6	547.5	538.3	536.8
50°	521.4	516.8	512.2	504.6	503.0
52.5°	484.6	481.6	478.5	470.8	466.2
55°	450.9	446.3	444.8	435.6	432.5
57.5°	414.1	409.5	408.0	397.2	392.6
60°	374.2	369.6	368.1	358.9	357.3
62.5°	338.9	334.3	331.3	325.1	322.1
65°	302.1	299.1	294.5	288.3	285.3
67.5°	265.3	262.3	257.7	253.1	250.0
70°	228.5	225.4	222.4	216.2	214.7
72.5°	191.7	188.6	185.6	182.5	182.5
75°	156.4	154.9	153.4	148.8	148.8
77.5°	121.2	119.6	118.1	116.6	116.6
80°	89.0	89.0	87.4	85.9	85.9
82.5°	59.8	59.8	59.8	58.3	58.3
85°	33.7	35.3	35.3	33.7	33.7
87.5°	13.8	13.8	13.8	13.8	13.8
90°	3.1	6.1	6.1	6.1	6.1
92.5°	6.1	7.7	9.2	10.7	9.2
95°	10.7	12.3	13.8	13.8	13.8
97.5°	16.9	18.4	18.4	18.4	18.4
100°	21.5	24.5	23.0	24.5	23.0
102.5°	26.1	32.2	32.2	29.1	29.1
105°	29.1	39.9	35.3	38.3	35.3
107.5°	32.2	49.1	41.4	42.9	44.5
110°	36.8	55.2	50.6	46.0	47.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	39.9	67.5	59.8	53.7	52.1
115°	42.9	69.0	70.5	61.3	59.8
117.5°	47.5	69.0	79.7	72.1	69.0
120°	50.6	73.6	87.4	81.3	78.2
122.5°	53.7	76.7	92.0	92.0	89.0
125°	56.7	78.2	96.6	99.7	98.2
127.5°	58.3	73.6	104.3	108.9	107.4
130°	61.3	70.5	102.8	110.4	115.0
132.5°	64.4	72.1	99.7	112.0	115.0
135°	65.9	73.6	96.6	119.6	118.1
137.5°	67.5	75.1	98.2	115.0	122.7
140°	70.5	75.1	99.7	108.9	118.1
142.5°	72.1	76.7	99.7	104.3	110.4
145°	73.6	76.7	92.0	105.8	107.4
147.5°	73.6	78.2	85.9	107.4	107.4
150°	75.1	78.2	85.9	107.4	107.4
152.5°	76.7	79.7	84.4	93.6	105.8
155°	76.7	79.7	84.4	90.5	90.5
157.5°	78.2	79.7	84.4	89.0	89.0
160°	78.2	79.7	84.4	87.4	85.9
162.5°	79.7	79.7	82.8	85.9	84.4
165°	79.7	79.7	84.4	85.9	84.4
167.5°	79.7	81.3	82.8	84.4	82.8
170°	81.3	81.3	82.8	82.8	81.3
172.5°	81.3	81.3	82.8	81.3	79.7
175°	81.3	81.3	81.3	81.3	78.2
177.5°	81.3	79.7	81.3	79.7	76.7
180°	79.7	79.7	79.7	79.7	79.7

(END OF REPORT)