

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: P274923

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L82765-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.4 lumens
Efficiency: N/A
Efficacy: 107.6 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

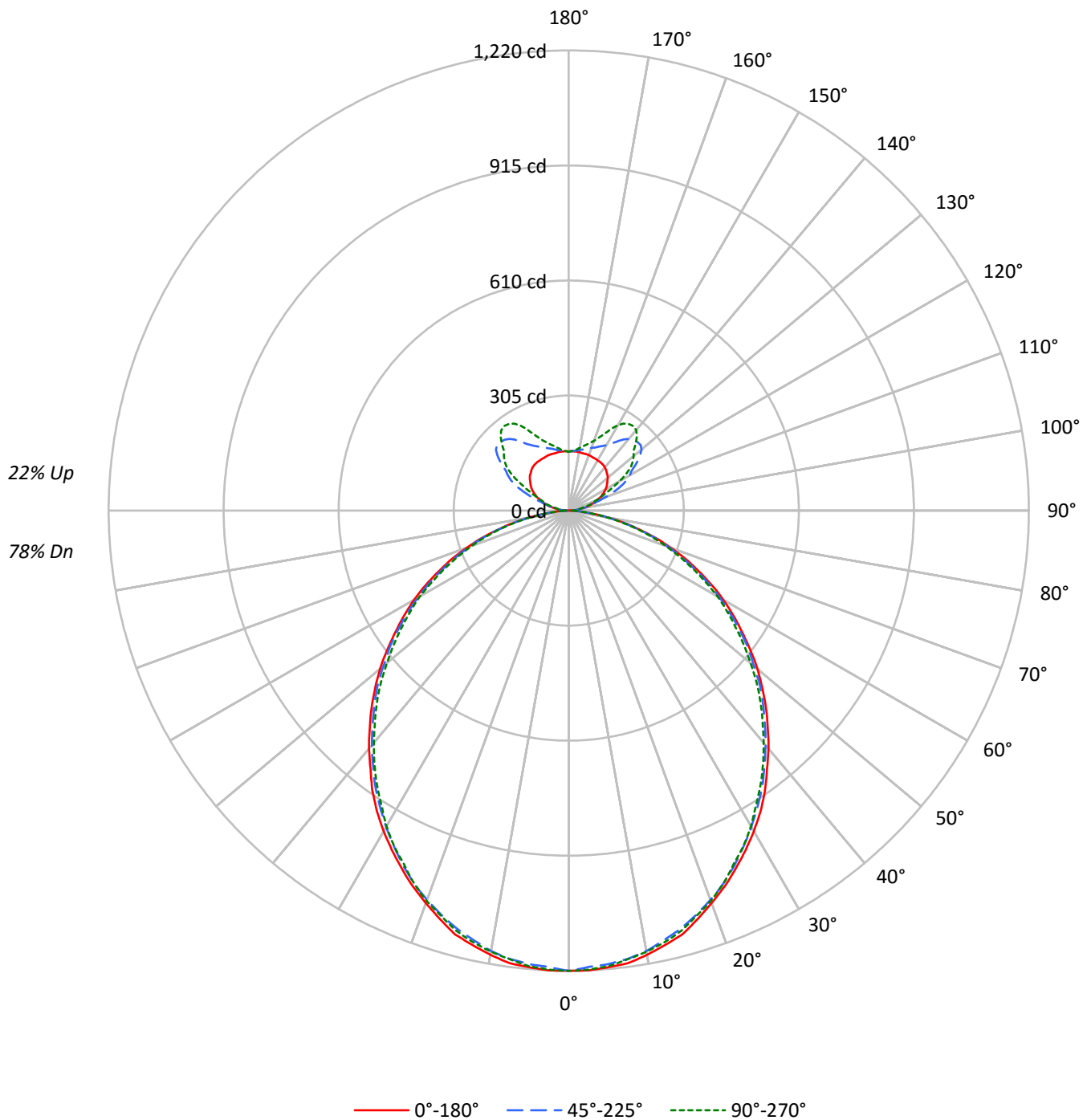
Input Watts (W): 37.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82
1	104	100	96	92	99	95	92	89	87	84	82	80	78	76	73	71	70
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9851	9851	9851
5°	9847	9781	9823
10°	9803	9720	9736
15°	9723	9587	9638
20°	9514	9436	9461
25°	9331	9250	9213
30°	9149	9025	9007
35°	8942	8812	8742
40°	8684	8555	8470
45°	8444	8317	8212
50°	8205	8052	7899
55°	7893	7793	7607
60°	7645	7464	7366
65°	7259	7064	6909
70°	6762	6595	6451
75°	6020	5926	5864
80°	4816	4863	4723
85°	3103	3196	3298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	2.9
10°-20°	325.1	8.1
20°-30°	479.5	11.9
30°-40°	560.0	13.9
40°-50°	562.4	14.0
50°-60°	495.0	12.3
60°-70°	368.1	9.2
70°-80°	201.8	5.0
80°-90°	45.9	1.1
90°-100°	23.1	0.6
100°-110°	73.3	1.8
110°-120°	138.2	3.4
120°-130°	173.9	4.3
130°-140°	171.2	4.3
140°-150°	138.0	3.4
150°-160°	88.3	2.2
160°-170°	48.3	1.2
170°-180°	15.3	0.4
0°-30°	919.6	22.9
0°-40°	1479.6	36.8
0°-60°	2537.0	63.1
0°-90°	3152.8	78.4
90°-120°	234.7	5.8
90°-150°	717.7	17.8
90°-180°	870.0	21.6
0°-180°	4022.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1215	1212	1207	1212	1212	115
15°	1163	1156	1147	1157	1153	327
25°	1048	1046	1038	1037	1034	483
35°	907	902	894	891	887	566
45°	740	738	728	720	719	570
55°	561	563	554	546	540	503
65°	380	380	370	366	362	377
75°	193	193	190	187	188	206
85°	34	34	34	37	36	43
90°	1	3	4	5	4	3
95°	21	20	20	22	22	22
105°	61	98	63	63	57	64
115°	98	194	152	117	108	96
125°	124	199	220	203	201	111
135°	142	178	257	260	251	110
145°	152	172	224	269	279	96
155°	154	167	187	213	224	72
165°	156	162	170	178	181	44
175°	158	158	158	160	160	15
180°	156	156	156	156	156	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.2	1220.2	1220.2	1220.2	1220.2
2.5°	1220.2	1218.2	1211.1	1217.2	1218.2
5°	1215.1	1212.1	1207.0	1212.1	1212.1
7.5°	1210.1	1205.0	1198.9	1201.9	1199.9
10°	1195.8	1193.8	1185.7	1189.7	1187.7
12.5°	1179.6	1176.5	1166.4	1174.5	1172.5
15°	1163.3	1156.2	1147.1	1157.2	1153.2
17.5°	1135.9	1133.9	1123.7	1132.8	1126.7
20°	1107.4	1106.4	1098.3	1102.4	1101.3
22.5°	1079.0	1075.9	1070.9	1071.9	1070.9
25°	1047.5	1045.5	1038.4	1037.3	1034.3
27.5°	1015.0	1014.0	1003.8	1003.8	1002.8
30°	981.5	978.4	968.2	968.2	966.2
32.5°	945.9	940.8	931.7	929.6	924.6
35°	907.3	902.2	894.1	891.0	887.0
37.5°	863.6	862.6	852.4	849.4	846.3
40°	824.0	820.9	811.8	808.7	803.7
42.5°	781.3	781.3	770.1	763.0	761.0
45°	739.6	737.6	728.5	720.3	719.3
47.5°	696.0	694.9	687.8	675.6	675.6
50°	653.3	651.3	641.1	633.0	628.9
52.5°	606.6	609.6	599.4	590.3	585.2
55°	560.8	562.9	553.7	545.6	540.5
57.5°	517.1	518.2	508.0	501.9	497.8
60°	473.5	472.4	462.3	457.2	456.2
62.5°	427.7	425.7	417.6	412.5	407.4
65°	380.0	380.0	369.8	365.8	361.7
67.5°	335.3	332.2	325.1	321.1	316.0
70°	286.5	285.5	279.4	276.4	273.3
72.5°	242.8	239.8	236.7	232.7	229.6
75°	193.0	193.0	190.0	186.9	188.0
77.5°	150.4	149.4	146.3	144.3	144.3
80°	103.6	105.7	104.6	103.6	101.6
82.5°	67.1	68.1	65.0	65.0	66.0
85°	33.5	34.5	34.5	36.6	35.6
87.5°	11.2	12.2	14.2	15.2	15.2
90°	1.0	3.0	4.1	5.1	4.1
92.5°	11.2	12.2	15.2	15.2	15.2
95°	21.3	20.3	20.3	22.4	22.4
97.5°	31.5	32.5	25.4	26.4	26.4
100°	41.7	50.8	38.6	31.5	31.5
102.5°	51.8	74.2	50.8	44.7	40.6
105°	61.0	97.5	63.0	63.0	56.9
107.5°	70.1	118.9	79.2	66.0	66.0
110°	79.2	147.3	102.6	79.2	75.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.4	174.8	128.0	95.5	89.4
115°	97.5	194.1	152.4	116.8	107.7
117.5°	105.7	202.2	171.7	141.2	129.0
120°	112.8	205.2	185.9	166.6	154.4
122.5°	118.9	204.2	198.1	190.0	179.8
125°	124.0	199.1	219.5	203.2	201.2
127.5°	129.0	192.0	237.7	214.4	213.4
130°	135.1	184.9	252.0	222.5	224.5
132.5°	139.2	179.8	258.1	241.8	232.7
135°	142.2	177.8	257.0	260.1	251.0
137.5°	146.3	175.8	254.0	271.3	267.2
140°	149.4	175.8	247.9	276.4	278.4
142.5°	151.4	173.7	237.7	275.3	282.4
145°	152.4	171.7	223.5	269.2	279.4
147.5°	153.4	170.7	210.3	260.1	273.3
150°	153.4	168.7	200.2	245.9	262.1
152.5°	154.4	167.6	193.0	228.6	243.8
155°	154.4	166.6	186.9	213.4	224.5
157.5°	155.4	164.6	180.8	201.2	209.3
160°	156.5	163.6	176.8	191.0	197.1
162.5°	156.5	162.6	172.7	183.9	188.0
165°	156.5	161.5	169.7	177.8	180.8
167.5°	156.5	160.5	165.6	172.7	174.8
170°	157.5	159.5	162.6	167.6	168.7
172.5°	157.5	158.5	160.5	163.6	163.6
175°	157.5	157.5	158.5	159.5	159.5
177.5°	157.5	157.5	157.5	157.5	157.5
180°	156.5	156.5	156.5	156.5	156.5

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