

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: P253431

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L83050-1D-UNV-W2A-W-4 (3000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.4 lumens
Efficiency: N/A
Efficacy: 93.6 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

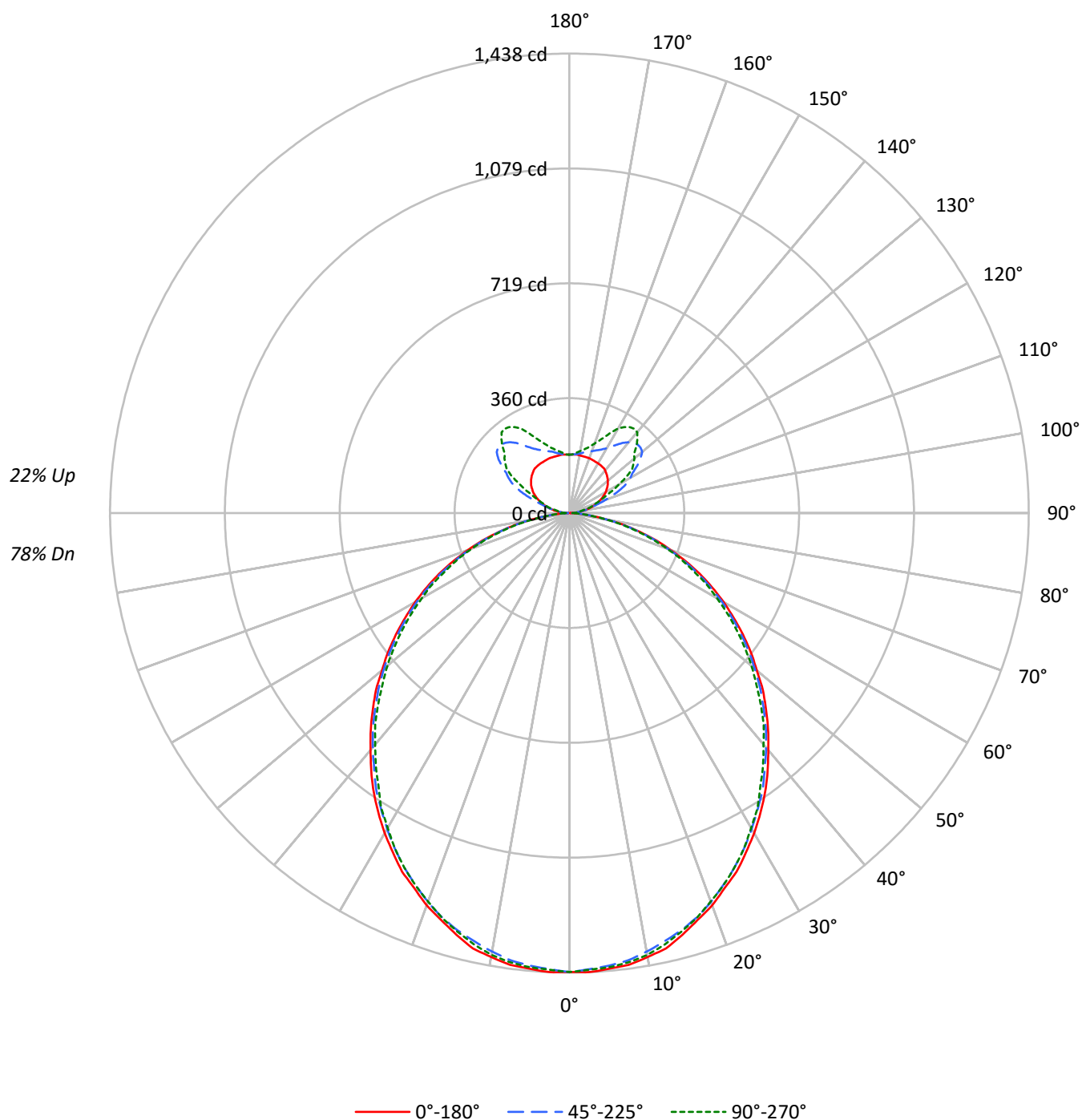
Input Watts (W): 50.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	78		
1	104	100	96	92	99	95	92	89	87	84	82	80	78	76	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	68	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43	40		
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11594	11594	11594
5°	11601	11524	11562
10°	11564	11425	11510
15°	11419	11300	11331
20°	11226	11128	11112
25°	11033	10898	10898
30°	10779	10638	10603
35°	10520	10399	10268
40°	10203	10094	9964
45°	9932	9801	9661
50°	9619	9511	9345
55°	9329	9182	8997
60°	9006	8854	8611
65°	8598	8416	8145
70°	7966	7789	7655
75°	7109	7018	6812
80°	5802	5760	5495
85°	3501	3770	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.9
10°-20°	382.8	8.1
20°-30°	565.2	11.9
30°-40°	659.9	13.9
40°-50°	663.0	14.0
50°-60°	583.7	12.3
60°-70°	434.5	9.2
70°-80°	237.9	5.0
80°-90°	54.2	1.1
90°-100°	27.2	0.6
100°-110°	85.9	1.8
110°-120°	162.3	3.4
120°-130°	204.6	4.3
130°-140°	201.1	4.2
140°-150°	161.5	3.4
150°-160°	103.1	2.2
160°-170°	56.3	1.2
170°-180°	17.8	0.4
0°-30°	1083.4	22.9
0°-40°	1743.3	36.8
0°-60°	2990.0	63.1
0°-90°	3716.6	78.5
90°-120°	275.4	5.8
90°-150°	842.6	17.8
90°-180°	1020.0	21.5
0°-180°	4736.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1432	1430	1422	1428	1427	136
15°	1366	1361	1352	1359	1356	385
25°	1239	1230	1224	1224	1224	569
35°	1068	1064	1055	1047	1042	667
45°	870	868	858	851	846	672
55°	663	664	652	643	639	592
65°	450	446	441	430	426	444
75°	228	228	225	222	218	243
85°	38	42	41	42	42	50
90°	2	4	5	6	6	4
95°	26	24	24	26	26	25
105°	72	114	73	73	67	75
115°	114	228	180	138	124	112
125°	146	232	259	239	239	130
135°	166	208	303	305	297	128
145°	178	200	262	317	328	111
155°	181	194	218	249	263	84
165°	182	188	199	207	210	52
175°	183	184	184	186	186	18
180°	182	182	182	182	182	



TEST NUMBER: P253431

CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.2	1436.2	1436.2	1436.2	1436.2
2.5°	1438.1	1437.2	1428.7	1435.3	1430.5
5°	1431.5	1430.5	1422.0	1427.7	1426.8
7.5°	1425.8	1418.3	1411.6	1416.4	1418.3
10°	1410.7	1401.2	1393.7	1404.1	1404.1
12.5°	1395.6	1383.3	1372.9	1386.1	1382.3
15°	1366.3	1360.6	1352.1	1358.7	1355.8
17.5°	1335.0	1335.0	1326.5	1330.3	1327.5
20°	1306.7	1304.8	1295.3	1299.1	1293.4
22.5°	1269.8	1269.8	1259.4	1262.2	1260.4
25°	1238.6	1230.1	1223.5	1224.4	1223.5
27.5°	1197.0	1192.3	1183.8	1185.7	1182.8
30°	1156.3	1149.7	1141.2	1144.1	1137.4
32.5°	1112.9	1108.1	1097.7	1096.8	1095.8
35°	1067.5	1063.7	1055.2	1046.7	1041.9
37.5°	1019.3	1018.3	1004.1	1000.3	995.6
40°	968.2	969.1	957.8	951.2	945.5
42.5°	920.9	917.1	909.6	901.1	900.1
45°	869.9	868.0	858.5	851.0	846.2
47.5°	821.6	818.8	809.3	800.8	793.3
50°	765.9	767.7	757.3	747.9	744.1
52.5°	715.7	717.6	706.3	695.9	692.1
55°	662.8	663.7	652.4	642.9	639.2
57.5°	608.9	609.8	600.4	591.9	587.2
60°	557.8	555.0	548.4	538.0	533.3
62.5°	503.0	503.0	493.6	485.0	485.0
65°	450.1	446.3	440.6	430.2	426.4
67.5°	394.3	391.4	384.8	377.3	378.2
70°	337.5	335.7	330.0	325.3	324.3
72.5°	285.5	281.8	278.0	273.3	271.4
75°	227.9	227.9	225.0	222.2	218.4
77.5°	177.8	175.9	174.0	171.1	169.2
80°	124.8	124.8	123.9	121.0	118.2
82.5°	78.5	80.4	78.5	77.5	77.5
85°	37.8	42.5	40.7	41.6	41.6
87.5°	12.3	14.2	17.0	18.0	18.0
90°	1.9	3.8	4.7	5.7	5.7
92.5°	13.2	14.2	18.0	18.0	18.9
95°	25.5	23.6	23.6	25.5	26.5
97.5°	36.9	37.8	30.3	30.3	31.2
100°	48.2	59.6	46.3	37.8	36.9
102.5°	59.6	87.0	59.6	52.0	47.3
105°	71.9	114.4	72.8	72.8	67.1
107.5°	82.3	139.9	93.6	76.6	77.5
110°	93.6	173.0	119.1	93.6	87.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.0	205.2	150.3	112.5	105.0
115°	113.5	227.9	179.6	138.0	123.9
117.5°	122.0	238.3	202.3	166.4	150.3
120°	131.4	242.0	220.3	195.7	179.6
122.5°	138.0	239.2	234.5	224.1	211.8
125°	145.6	231.6	259.1	239.2	239.2
127.5°	151.3	223.1	280.8	254.3	252.4
130°	157.0	215.6	296.9	263.8	265.7
132.5°	161.7	210.8	302.6	285.5	273.3
135°	166.4	208.0	302.6	305.4	296.9
137.5°	170.2	206.1	297.8	319.6	314.9
140°	174.0	204.2	289.3	324.3	330.0
142.5°	176.8	202.3	277.0	323.4	332.8
145°	177.8	200.4	261.9	316.7	328.1
147.5°	178.7	198.6	246.8	305.4	318.6
150°	179.6	197.6	234.5	287.4	305.4
152.5°	179.6	195.7	225.0	265.7	285.5
155°	180.6	193.8	217.5	248.7	262.8
157.5°	181.5	191.9	211.8	234.5	245.8
160°	182.5	190.0	206.1	224.1	231.6
162.5°	182.5	189.1	202.3	214.6	219.4
165°	182.5	188.2	198.6	207.1	209.9
167.5°	182.5	187.2	192.9	200.4	203.3
170°	183.4	186.3	189.1	194.8	197.6
172.5°	184.4	185.3	186.3	190.0	191.9
175°	183.4	184.4	184.4	186.3	186.3
177.5°	183.4	183.4	183.4	184.4	183.4
180°	182.5	182.5	182.5	182.5	182.5

(END OF REPORT)