

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: P253432

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253432
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5272.5 lumens
Efficiency: N/A
Efficacy: 101.6 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

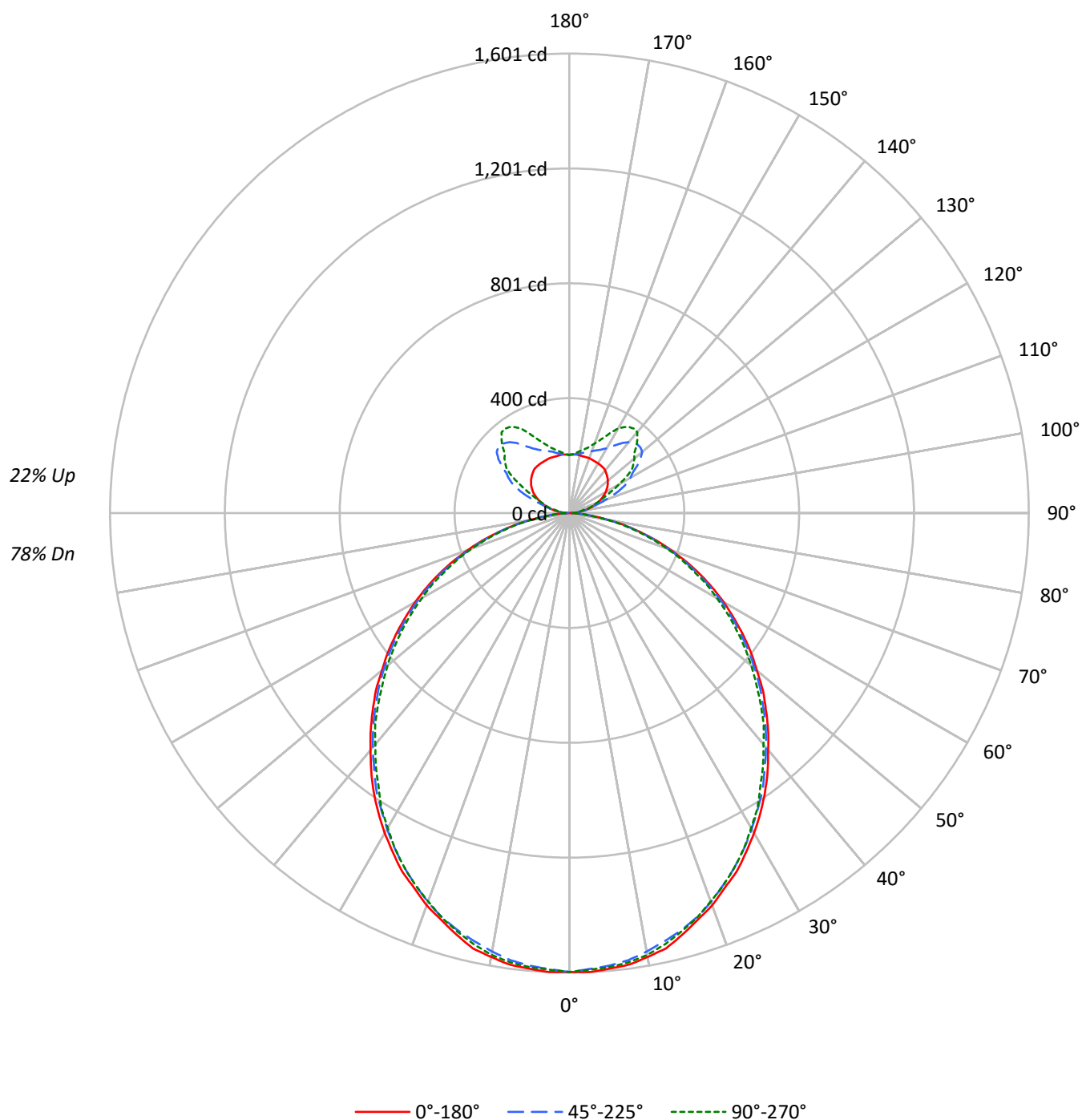
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	12907	12907	12907
5°	12913	12828	12871
10°	12873	12718	12813
15°	12711	12579	12614
20°	12497	12388	12370
25°	12282	12132	12132
30°	11999	11842	11803
35°	11711	11576	11431
40°	11358	11236	11092
45°	11055	10911	10755
50°	10707	10589	10403
55°	10384	10221	10014
60°	10027	9857	9584
65°	9570	9370	9068
70°	8870	8670	8521
75°	7913	7813	7583
80°	6457	6411	6118
85°	3900	4196	4289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.9
10°-20°	426.1	8.1
20°-30°	629.1	11.9
30°-40°	734.6	13.9
40°-50°	738.1	14.0
50°-60°	649.7	12.3
60°-70°	483.6	9.2
70°-80°	264.9	5.0
80°-90°	60.4	1.1
90°-100°	30.3	0.6
100°-110°	95.6	1.8
110°-120°	180.7	3.4
120°-130°	227.8	4.3
130°-140°	223.8	4.2
140°-150°	179.8	3.4
150°-160°	114.7	2.2
160°-170°	62.7	1.2
170°-180°	19.8	0.4
0°-30°	1206.0	22.9
0°-40°	1940.6	36.8
0°-60°	3328.4	63.1
0°-90°	4137.3	78.5
90°-120°	306.5	5.8
90°-150°	937.9	17.8
90°-180°	1135.0	21.5
0°-180°	5272.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1594	1592	1583	1589	1588	152
15°	1521	1515	1505	1512	1509	429
25°	1379	1369	1362	1363	1362	634
35°	1188	1184	1175	1165	1160	743
45°	968	966	956	947	942	748
55°	738	739	726	716	712	659
65°	501	497	490	479	475	494
75°	254	254	250	247	243	271
85°	42	47	45	46	46	56
90°	2	4	5	6	6	4
95°	28	26	26	28	30	28
105°	80	127	81	81	75	84
115°	126	254	200	154	138	125
125°	162	258	288	266	266	144
135°	185	232	337	340	330	143
145°	198	223	292	353	365	124
155°	201	216	242	277	293	93
165°	203	210	221	230	234	58
175°	204	205	205	207	207	20
180°	203	203	203	203	203	



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CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1600.9	1599.8	1590.4	1597.7	1592.5
5°	1593.5	1592.5	1583.0	1589.3	1588.3
7.5°	1587.2	1578.8	1571.4	1576.7	1578.8
10°	1570.4	1559.8	1551.4	1563.0	1563.0
12.5°	1553.5	1539.8	1528.3	1543.0	1538.8
15°	1520.9	1514.6	1505.1	1512.5	1509.3
17.5°	1486.2	1486.2	1476.7	1480.9	1477.7
20°	1454.6	1452.5	1442.0	1446.2	1439.9
22.5°	1413.5	1413.5	1402.0	1405.1	1403.0
25°	1378.8	1369.3	1362.0	1363.0	1362.0
27.5°	1332.5	1327.2	1317.8	1319.9	1316.7
30°	1287.2	1279.9	1270.4	1273.6	1266.2
32.5°	1238.8	1233.6	1222.0	1220.9	1219.9
35°	1188.3	1184.1	1174.6	1165.1	1159.9
37.5°	1134.6	1133.6	1117.8	1113.6	1108.3
40°	1077.8	1078.8	1066.2	1058.8	1052.5
42.5°	1025.2	1021.0	1012.5	1003.1	1002.0
45°	968.3	966.2	955.7	947.3	942.0
47.5°	914.6	911.5	901.0	891.5	883.1
50°	852.5	854.7	843.1	832.5	828.3
52.5°	796.8	798.9	786.2	774.7	770.5
55°	737.8	738.9	726.2	715.7	711.5
57.5°	677.8	678.9	668.4	658.9	653.6
60°	621.0	617.8	610.5	598.9	593.6
62.5°	559.9	559.9	549.4	539.9	539.9
65°	501.0	496.8	490.5	478.9	474.7
67.5°	438.9	435.7	428.4	420.0	421.0
70°	375.8	373.6	367.3	362.1	361.0
72.5°	317.9	313.7	309.4	304.2	302.1
75°	253.7	253.7	250.5	247.3	243.1
77.5°	197.9	195.8	193.7	190.5	188.4
80°	138.9	138.9	137.9	134.7	131.6
82.5°	87.4	89.5	87.4	86.3	86.3
85°	42.1	47.4	45.3	46.3	46.3
87.5°	13.7	15.8	18.9	20.0	20.0
90°	2.1	4.2	5.3	6.3	6.3
92.5°	14.7	15.8	20.0	20.0	21.1
95°	28.4	26.3	26.3	28.4	29.5
97.5°	41.0	42.1	33.7	33.7	34.7
100°	53.7	66.3	51.6	42.1	41.0
102.5°	66.3	96.8	66.3	57.9	52.6
105°	80.0	127.4	81.0	81.0	74.7
107.5°	91.6	155.8	104.2	85.3	86.3
110°	104.2	192.6	132.6	104.2	97.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.8	228.4	167.4	125.3	116.8
115°	126.3	253.7	200.0	153.7	137.9
117.5°	135.8	265.2	225.2	185.2	167.4
120°	146.3	269.4	245.2	217.9	200.0
122.5°	153.7	266.3	261.0	249.4	235.8
125°	162.1	257.9	288.4	266.3	266.3
127.5°	168.4	248.4	312.6	283.1	281.0
130°	174.7	240.0	330.5	293.7	295.8
132.5°	180.0	234.7	336.8	317.9	304.2
135°	185.2	231.6	336.8	340.0	330.5
137.5°	189.5	229.5	331.5	355.8	350.5
140°	193.7	227.3	322.1	361.0	367.3
142.5°	196.8	225.2	308.4	360.0	370.5
145°	197.9	223.1	291.6	352.6	365.2
147.5°	198.9	221.0	274.7	340.0	354.7
150°	200.0	220.0	261.0	320.0	340.0
152.5°	200.0	217.9	250.5	295.8	317.9
155°	201.0	215.8	242.1	276.8	292.6
157.5°	202.1	213.7	235.8	261.0	273.7
160°	203.1	211.6	229.5	249.4	257.9
162.5°	203.1	210.5	225.2	238.9	244.2
165°	203.1	209.5	221.0	230.5	233.7
167.5°	203.1	208.4	214.7	223.1	226.3
170°	204.2	207.3	210.5	216.8	220.0
172.5°	205.2	206.3	207.3	211.6	213.7
175°	204.2	205.2	205.2	207.3	207.3
177.5°	204.2	204.2	204.2	205.2	204.2
180°	203.1	203.1	203.1	203.1	203.1

(END OF REPORT)