

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: P253374

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253374
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-40L83050-1D-UNV-W2A-DLED-W-4 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3836.6 lumens
Efficiency: N/A
Efficacy: 102.0 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

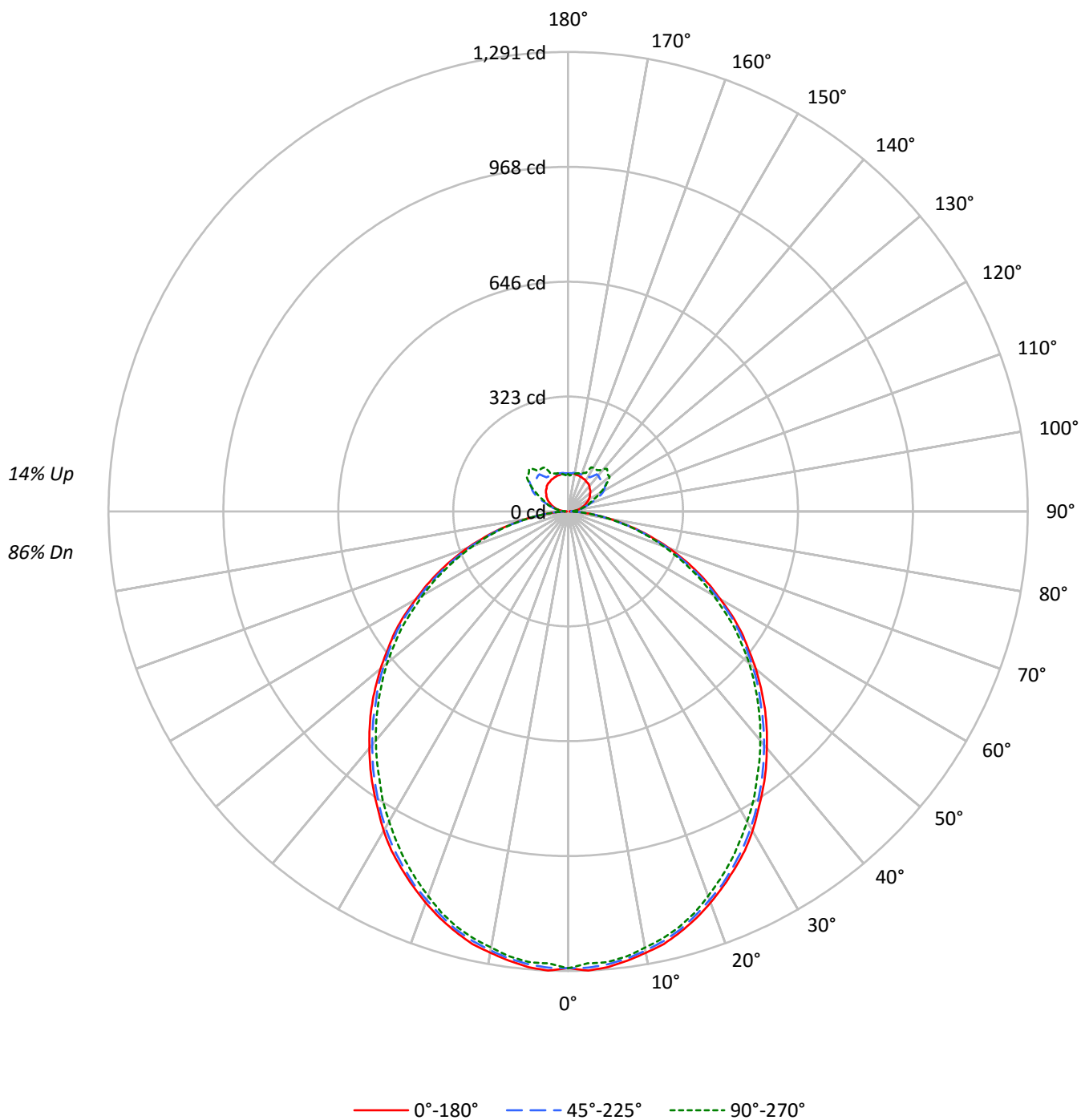
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	10358	10358	10358
5°	10414	10349	10299
10°	10319	10269	10203
15°	10216	10166	10098
20°	10049	9979	9875
25°	9861	9788	9644
30°	9659	9564	9376
35°	9394	9294	9094
40°	9150	9021	8851
45°	8919	8734	8595
50°	8642	8489	8337
55°	8374	8260	8032
60°	7973	7842	7613
65°	7616	7423	7190
70°	7117	6925	6687
75°	6438	6313	6123
80°	5458	5365	5267
85°	4122	4307	4122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	341.5	8.9
20°-30°	503.6	13.1
30°-40°	587.0	15.3
40°-50°	590.2	15.4
50°-60°	519.7	13.5
60°-70°	383.7	10.0
70°-80°	212.6	5.5
80°-90°	55.3	1.4
90°-100°	19.7	0.5
100°-110°	50.7	1.3
110°-120°	82.3	2.1
120°-130°	102.9	2.7
130°-140°	96.6	2.5
140°-150°	76.2	2.0
150°-160°	52.5	1.4
160°-170°	30.9	0.8
170°-180°	10.2	0.3
0°-30°	966.0	25.2
0°-40°	1553.0	40.5
0°-60°	2663.0	69.4
0°-90°	3314.5	86.4
90°-120°	152.7	4.0
90°-150°	428.4	11.2
90°-180°	522.0	13.6
0°-180°	3836.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1285	1271	1277	1273	1271	122
15°	1222	1210	1216	1210	1208	344
25°	1107	1097	1099	1085	1083	510
35°	953	945	943	927	923	597
45°	781	773	765	755	753	602
55°	595	589	587	575	571	530
65°	399	395	389	380	376	394
75°	206	204	202	196	196	218
85°	44	46	46	44	44	52
90°	4	8	8	8	8	5
95°	14	16	18	18	18	15
105°	38	53	46	51	46	41
115°	57	91	93	81	79	57
125°	75	103	128	132	130	66
135°	87	97	128	158	156	67
145°	97	101	121	140	142	60
155°	101	105	111	119	119	47
165°	105	105	111	113	111	30
175°	107	107	107	107	103	10
180°	105	105	105	105	105	



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CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1291.1	1277.0	1283.1	1279.0	1270.9
5°	1285.1	1270.9	1277.0	1272.9	1270.9
7.5°	1272.9	1260.8	1266.9	1262.8	1260.8
10°	1258.8	1246.6	1252.7	1246.6	1244.6
12.5°	1244.6	1230.4	1236.5	1228.4	1228.4
15°	1222.3	1210.2	1216.3	1210.2	1208.2
17.5°	1198.1	1185.9	1190.0	1183.9	1181.9
20°	1169.7	1157.6	1161.6	1153.5	1149.5
22.5°	1139.4	1129.2	1133.3	1119.1	1117.1
25°	1107.0	1096.9	1098.9	1084.7	1082.7
27.5°	1074.6	1060.4	1064.5	1048.3	1044.3
30°	1036.2	1024.0	1026.0	1009.8	1005.8
32.5°	993.7	985.6	985.6	969.4	967.3
35°	953.2	945.1	943.1	926.9	922.8
37.5°	912.7	902.6	900.6	882.4	882.4
40°	868.2	860.1	856.0	841.9	839.9
42.5°	825.7	815.6	811.5	797.4	797.4
45°	781.2	773.1	765.0	754.9	752.8
47.5°	734.6	726.5	722.5	710.3	708.3
50°	688.1	682.0	675.9	665.8	663.8
52.5°	639.5	635.5	631.4	621.3	615.2
55°	595.0	588.9	586.9	574.7	570.7
57.5°	546.4	540.3	538.3	524.1	518.1
60°	493.8	487.7	485.7	473.6	471.5
62.5°	447.2	441.2	437.1	429.0	425.0
65°	398.7	394.6	388.6	380.5	376.4
67.5°	350.1	346.1	340.0	333.9	329.9
70°	301.5	297.5	293.4	285.3	283.3
72.5°	253.0	248.9	244.9	240.8	240.8
75°	206.4	204.4	202.4	196.3	196.3
77.5°	159.9	157.9	155.8	153.8	153.8
80°	117.4	117.4	115.4	113.3	113.3
82.5°	78.9	78.9	78.9	76.9	76.9
85°	44.5	46.5	46.5	44.5	44.5
87.5°	18.2	18.2	18.2	18.2	18.2
90°	4.0	8.1	8.1	8.1	8.1
92.5°	8.1	10.1	12.1	14.2	12.1
95°	14.2	16.2	18.2	18.2	18.2
97.5°	22.3	24.3	24.3	24.3	24.3
100°	28.3	32.4	30.4	32.4	30.4
102.5°	34.4	42.5	42.5	38.5	38.5
105°	38.5	52.6	46.5	50.6	46.5
107.5°	42.5	64.8	54.6	56.7	58.7
110°	48.6	72.9	66.8	60.7	62.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.6	89.0	78.9	70.8	68.8
115°	56.7	91.1	93.1	80.9	78.9
117.5°	62.7	91.1	105.2	95.1	91.1
120°	66.8	97.1	115.4	107.3	103.2
122.5°	70.8	101.2	121.4	121.4	117.4
125°	74.9	103.2	127.5	131.5	129.5
127.5°	76.9	97.1	137.6	143.7	141.7
130°	80.9	93.1	135.6	145.7	151.8
132.5°	85.0	95.1	131.5	147.7	151.8
135°	87.0	97.1	127.5	157.9	155.8
137.5°	89.0	99.2	129.5	151.8	161.9
140°	93.1	99.2	131.5	143.7	155.8
142.5°	95.1	101.2	131.5	137.6	145.7
145°	97.1	101.2	121.4	139.6	141.7
147.5°	97.1	103.2	113.3	141.7	141.7
150°	99.2	103.2	113.3	141.7	141.7
152.5°	101.2	105.2	111.3	123.4	139.6
155°	101.2	105.2	111.3	119.4	119.4
157.5°	103.2	105.2	111.3	117.4	117.4
160°	103.2	105.2	111.3	115.4	113.3
162.5°	105.2	105.2	109.3	113.3	111.3
165°	105.2	105.2	111.3	113.3	111.3
167.5°	105.2	107.3	109.3	111.3	109.3
170°	107.3	107.3	109.3	109.3	107.3
172.5°	107.3	107.3	109.3	107.3	105.2
175°	107.3	107.3	107.3	107.3	103.2
177.5°	107.3	105.2	107.3	105.2	101.2
180°	105.2	105.2	105.2	105.2	105.2

(END OF REPORT)