

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: G3-1805-784-13

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-13
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L83050-1D-UNV-W2A-W-4 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5009.4 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.31' x L: 3.62' x H: 0')
CIE Type: Semi-Direct

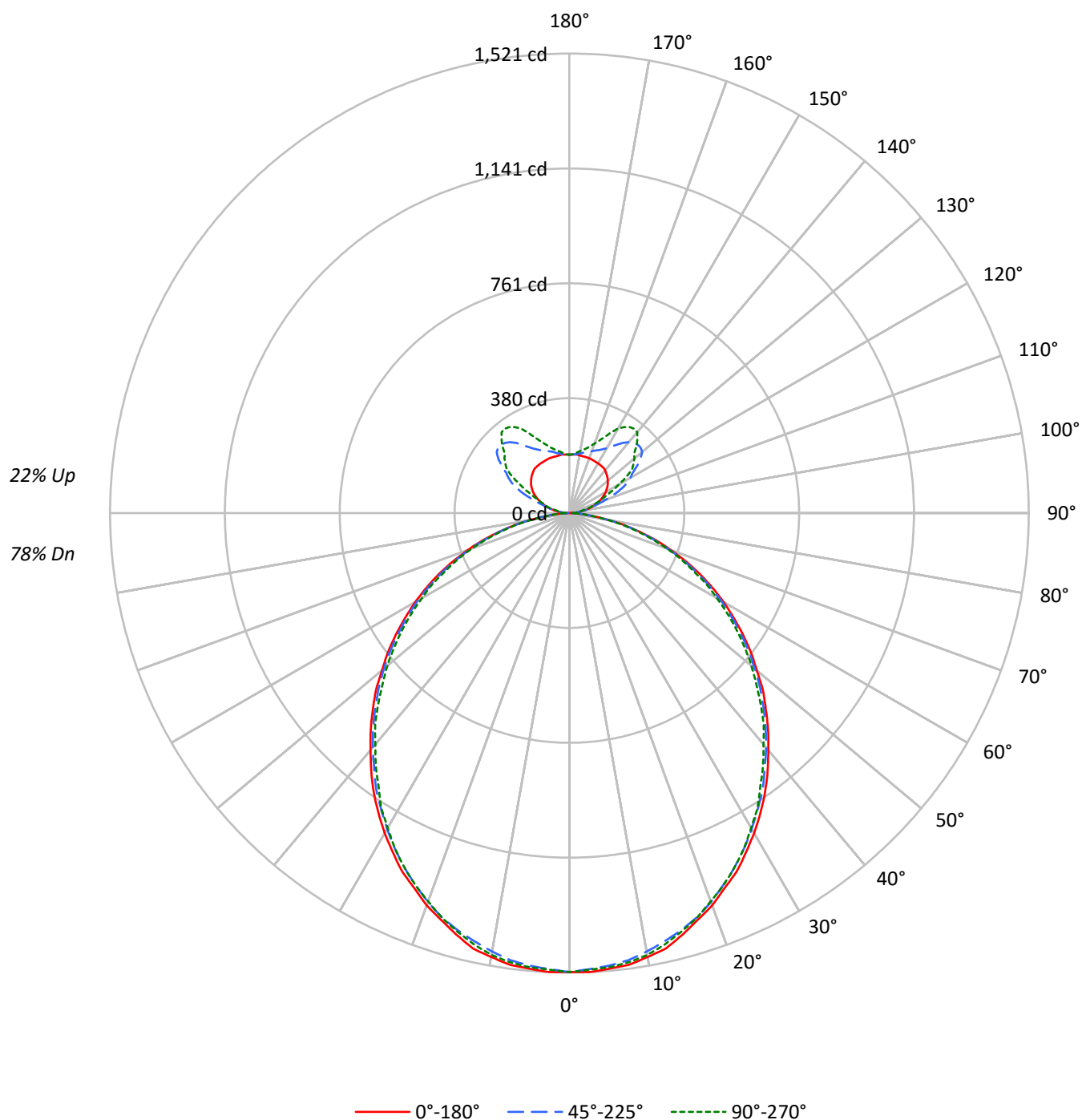
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14433	14433	14433
5°	14441	14346	14393
10°	14396	14222	14328
15°	14215	14067	14106
20°	13974	13853	13833
25°	13734	13567	13567
30°	13419	13243	13199
35°	13096	12945	12783
40°	12702	12565	12404
45°	12363	12201	12027
50°	11974	11841	11634
55°	11613	11431	11199
60°	11212	11022	10718
65°	10702	10477	10140
70°	9918	9696	9529
75°	8848	8738	8481
80°	7223	7168	6840
85°	4361	4688	4797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	2.9
10°-20°	404.8	8.1
20°-30°	597.7	11.9
30°-40°	697.9	13.9
40°-50°	701.2	14.0
50°-60°	617.3	12.3
60°-70°	459.5	9.2
70°-80°	251.6	5.0
80°-90°	57.4	1.1
90°-100°	28.8	0.6
100°-110°	90.8	1.8
110°-120°	171.7	3.4
120°-130°	216.4	4.3
130°-140°	212.7	4.2
140°-150°	170.8	3.4
150°-160°	109.0	2.2
160°-170°	59.5	1.2
170°-180°	18.9	0.4
0°-30°	1145.8	22.9
0°-40°	1843.8	36.8
0°-60°	3162.3	63.1
0°-90°	3930.8	78.5
90°-120°	291.2	5.8
90°-150°	891.1	17.8
90°-180°	1079.0	21.5
0°-180°	5009.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1514	1513	1504	1510	1509	144
15°	1445	1439	1430	1437	1434	407
25°	1310	1301	1294	1295	1294	602
35°	1129	1125	1116	1107	1102	705
45°	920	918	908	900	895	710
55°	701	702	690	680	676	627
65°	476	472	466	455	451	470
75°	241	241	238	235	231	257
85°	40	45	43	44	44	53
90°	2	4	5	6	6	4
95°	27	25	25	27	28	27
105°	76	121	77	77	71	79
115°	120	241	190	146	131	118
125°	154	245	274	253	253	137
135°	176	220	320	323	314	136
145°	188	212	277	335	347	118
155°	191	205	230	263	278	88
165°	193	199	210	219	222	55
175°	194	195	195	197	197	19
180°	193	193	193	193	193	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519	1519	1519	1519	1519
2.5°	1521	1520	1511	1518	1513
5°	1514	1513	1504	1510	1509
7.5°	1508	1500	1493	1498	1500
10°	1492	1482	1474	1485	1485
12.5°	1476	1463	1452	1466	1462
15°	1445	1439	1430	1437	1434
17.5°	1412	1412	1403	1407	1404
20°	1382	1380	1370	1374	1368
22.5°	1343	1343	1332	1335	1333
25°	1310	1301	1294	1295	1294
27.5°	1266	1261	1252	1254	1251
30°	1223	1216	1207	1210	1203
32.5°	1177	1172	1161	1160	1159
35°	1129	1125	1116	1107	1102
37.5°	1078	1077	1062	1058	1053
40°	1024	1025	1013	1006	1000
42.5°	974	970	962	953	952
45°	920	918	908	900	895
47.5°	869	866	856	847	839
50°	810	812	801	791	787
52.5°	757	759	747	736	732
55°	701	702	690	680	676
57.5°	644	645	635	626	621
60°	590	587	580	569	564
62.5°	532	532	522	513	513
65°	476	472	466	455	451
67.5°	417	414	407	399	400
70°	357	355	349	344	343
72.5°	302	298	294	289	287
75°	241	241	238	235	231
77.5°	188	186	184	181	179
80°	132	132	131	128	125
82.5°	83	85	83	82	82
85°	40	45	43	44	44
87.5°	13	15	18	19	19
90°	2	4	5	6	6
92.5°	14	15	19	19	20
95°	27	25	25	27	28
97.5°	39	40	32	32	33
100°	51	63	49	40	39
102.5°	63	92	63	55	50
105°	76	121	77	77	71
107.5°	87	148	99	81	82
110°	99	183	126	99	93



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110	217	159	119	111
115°	120	241	190	146	131
117.5°	129	252	214	176	159
120°	139	256	233	207	190
122.5°	146	253	248	237	224
125°	154	245	274	253	253
127.5°	160	236	297	269	267
130°	166	228	314	279	281
132.5°	171	223	320	302	289
135°	176	220	320	323	314
137.5°	180	218	315	338	333
140°	184	216	306	343	349
142.5°	187	214	293	342	352
145°	188	212	277	335	347
147.5°	189	210	261	323	337
150°	190	209	248	304	323
152.5°	190	207	238	281	302
155°	191	205	230	263	278
157.5°	192	203	224	248	260
160°	193	201	218	237	245
162.5°	193	200	214	227	232
165°	193	199	210	219	222
167.5°	193	198	204	212	215
170°	194	197	200	206	209
172.5°	195	196	197	201	203
175°	194	195	195	197	197
177.5°	194	194	194	195	194
180°	193	193	193	193	193

(END OF REPORT)