

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: G3-1805-784-12

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-12
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L83050-1D-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: 3959.1 lumens
Efficiency: N/A
Efficacy: 107.9 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

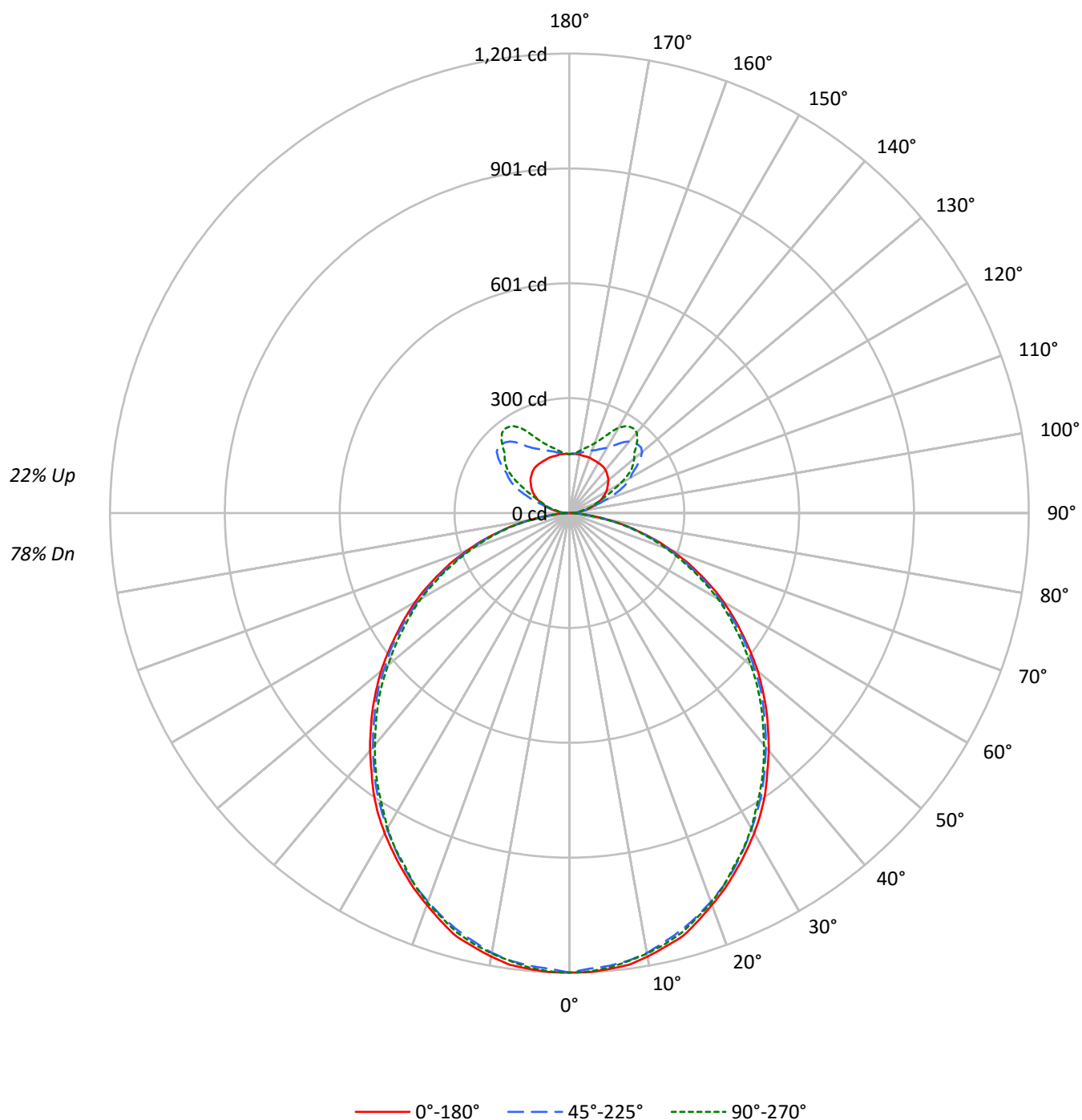
Input Watts (W): 36.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11412	11412	11412
5°	11408	11331	11379
10°	11356	11260	11279
15°	11264	11106	11165
20°	11022	10931	10961
25°	10809	10715	10673
30°	10599	10456	10434
35°	10359	10208	10127
40°	10060	9911	9811
45°	9783	9635	9514
50°	9505	9328	9150
55°	9145	9029	8813
60°	8856	8647	8533
65°	8409	8184	8004
70°	7834	7640	7473
75°	6975	6865	6792
80°	5581	5636	5472
85°	3598	3707	3816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.9
10°-20°	320.0	8.1
20°-30°	471.9	11.9
30°-40°	551.2	13.9
40°-50°	553.5	14.0
50°-60°	487.2	12.3
60°-70°	362.3	9.2
70°-80°	198.6	5.0
80°-90°	45.2	1.1
90°-100°	22.8	0.6
100°-110°	72.2	1.8
110°-120°	136.0	3.4
120°-130°	171.1	4.3
130°-140°	168.5	4.3
140°-150°	135.8	3.4
150°-160°	86.9	2.2
160°-170°	47.5	1.2
170°-180°	15.1	0.4
0°-30°	905.1	22.9
0°-40°	1456.3	36.8
0°-60°	2497.0	63.1
0°-90°	3103.2	78.4
90°-120°	231.0	5.8
90°-150°	706.4	17.8
90°-180°	856.0	21.6
0°-180°	3959.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1196	1193	1188	1193	1193	114
15°	1145	1138	1129	1139	1135	322
25°	1031	1029	1022	1021	1018	475
35°	893	888	880	877	873	558
45°	728	726	717	709	708	561
55°	552	554	545	537	532	495
65°	374	374	364	360	356	371
75°	190	190	187	184	185	203
85°	33	34	34	36	35	42
90°	1	3	4	5	4	3
95°	21	20	20	22	22	21
105°	60	96	62	62	56	63
115°	96	191	150	115	106	95
125°	122	196	216	200	198	109
135°	140	175	253	256	247	108
145°	150	169	220	265	275	94
155°	152	164	184	210	221	70
165°	154	159	167	175	178	44
175°	155	155	156	157	157	15
180°	154	154	154	154	154	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201	1201	1201	1201	1201
2.5°	1201	1199	1192	1198	1199
5°	1196	1193	1188	1193	1193
7.5°	1191	1186	1180	1183	1181
10°	1177	1175	1167	1171	1169
12.5°	1161	1158	1148	1156	1154
15°	1145	1138	1129	1139	1135
17.5°	1118	1116	1106	1115	1109
20°	1090	1089	1081	1085	1084
22.5°	1062	1059	1054	1055	1054
25°	1031	1029	1022	1021	1018
27.5°	999	998	988	988	987
30°	966	963	953	953	951
32.5°	931	926	917	915	910
35°	893	888	880	877	873
37.5°	850	849	839	836	833
40°	811	808	799	796	791
42.5°	769	769	758	751	749
45°	728	726	717	709	708
47.5°	685	684	677	665	665
50°	643	641	631	623	619
52.5°	597	600	590	581	576
55°	552	554	545	537	532
57.5°	509	510	500	494	490
60°	466	465	455	450	449
62.5°	421	419	411	406	401
65°	374	374	364	360	356
67.5°	330	327	320	316	311
70°	282	281	275	272	269
72.5°	239	236	233	229	226
75°	190	190	187	184	185
77.5°	148	147	144	142	142
80°	102	104	103	102	100
82.5°	66	67	64	64	65
85°	33	34	34	36	35
87.5°	11	12	14	15	15
90°	1	3	4	5	4
92.5°	11	12	15	15	15
95°	21	20	20	22	22
97.5°	31	32	25	26	26
100°	41	50	38	31	31
102.5°	51	73	50	44	40
105°	60	96	62	62	56
107.5°	69	117	78	65	65
110°	78	145	101	78	74



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	88	172	126	94	88
115°	96	191	150	115	106
117.5°	104	199	169	139	127
120°	111	202	183	164	152
122.5°	117	201	195	187	177
125°	122	196	216	200	198
127.5°	127	189	234	211	210
130°	133	182	248	219	221
132.5°	137	177	254	238	229
135°	140	175	253	256	247
137.5°	144	173	250	267	263
140°	147	173	244	272	274
142.5°	149	171	234	271	278
145°	150	169	220	265	275
147.5°	151	168	207	256	269
150°	151	166	197	242	258
152.5°	152	165	190	225	240
155°	152	164	184	210	221
157.5°	153	162	178	198	206
160°	154	161	174	188	194
162.5°	154	160	170	181	185
165°	154	159	167	175	178
167.5°	154	158	163	170	172
170°	155	157	160	165	166
172.5°	155	156	158	161	161
175°	155	155	156	157	157
177.5°	155	155	155	155	155
180°	154	154	154	154	154

(END OF REPORT)