

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: G3-1805-784-17

Luminaire Tested: **J3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-17
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7983.7 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Indirect

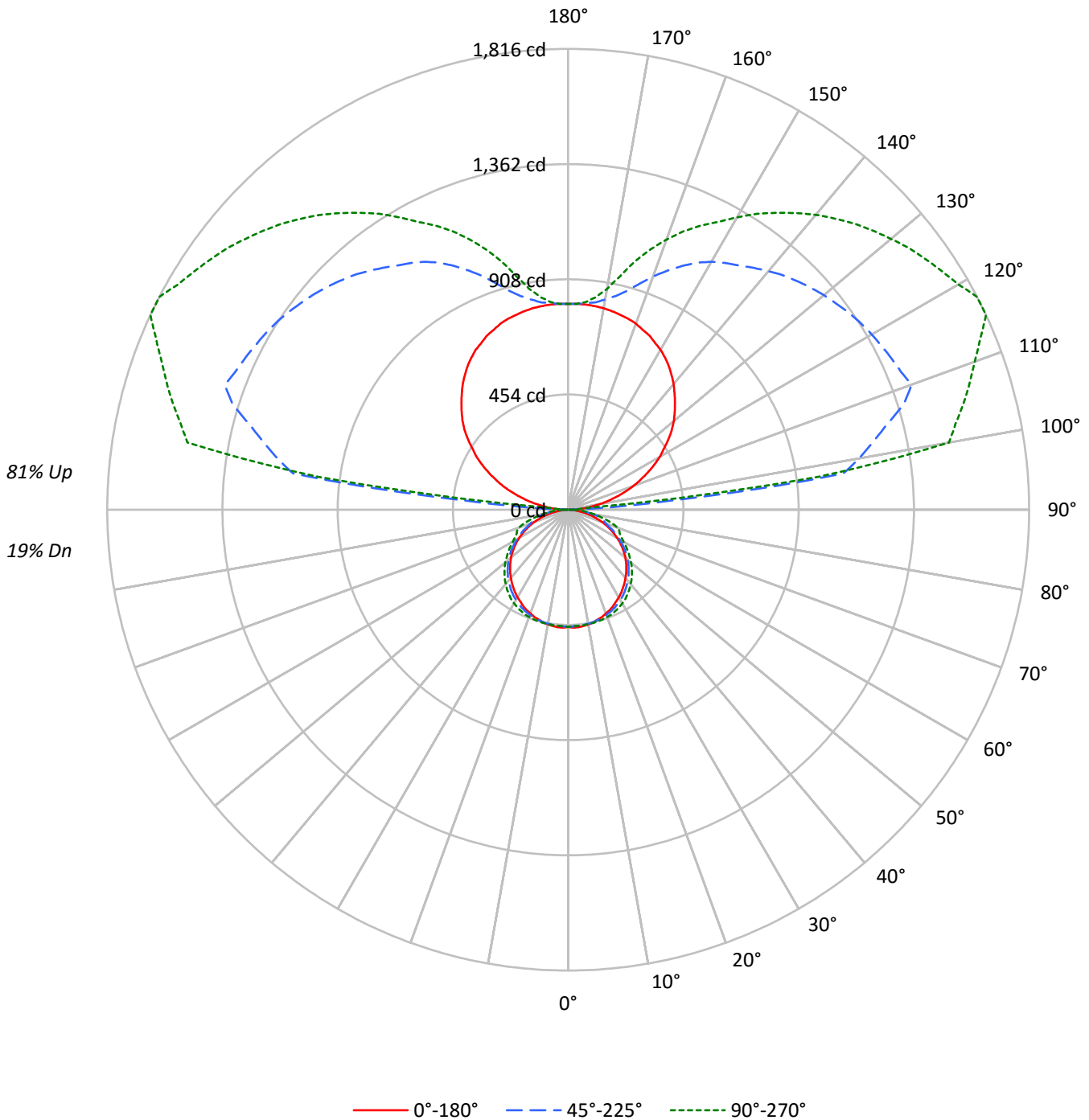
Input Watts (W): 62.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10				
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8				
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7				
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2486	2486	2486
5°	2512	2485	2480
10°	2508	2492	2503
15°	2496	2507	2535
20°	2491	2526	2577
25°	2488	2542	2613
30°	2480	2554	2647
35°	2470	2562	2674
40°	2466	2564	2691
45°	2466	2565	2702
50°	2462	2562	2704
55°	2440	2552	2702
60°	2400	2508	2702
65°	2330	2483	2853
70°	2234	2486	3242
75°	2059	2849	3265
80°	1798	2882	3192
85°	1420	3273	3643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	0.6
10°-20°	127.7	1.6
20°-30°	198.1	2.5
30°-40°	245.0	3.1
40°-50°	261.3	3.3
50°-60°	243.4	3.0
60°-70°	198.3	2.5
70°-80°	136.5	1.7
80°-90°	53.7	0.7
90°-100°	471.0	5.9
100°-110°	1205.6	15.1
110°-120°	1247.7	15.6
120°-130°	1111.5	13.9
130°-140°	925.7	11.6
140°-150°	704.7	8.8
150°-160°	474.0	5.9
160°-170°	256.8	3.2
170°-180°	78.7	1.0
0°-30°	369.7	4.6
0°-40°	614.7	7.7
0°-60°	1119.4	14.0
0°-90°	1507.9	18.9
90°-120°	2924.3	36.6
90°-150°	5666.2	71.0
90°-180°	6476.0	81.1
0°-180°	7983.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	465	463	460	461	459	44
15°	448	451	450	455	455	127
25°	419	423	428	437	440	193
35°	376	382	390	403	407	235
45°	324	329	337	349	355	250
55°	260	264	272	281	288	232
65°	183	187	195	213	224	181
75°	99	105	137	153	157	104
85°	23	42	53	59	59	27
90°	3	5	5	4	4	8
95°	67	524	386	65	65	66
105°	198	832	1300	1529	1612	209
115°	345	860	1407	1739	1816	341
125°	481	879	1351	1626	1720	430
135°	595	903	1274	1513	1594	459
145°	691	886	1174	1364	1428	432
155°	757	842	1059	1194	1235	349
165°	795	817	892	979	1012	225
175°	811	812	817	820	822	77
180°	811	811	811	811	811	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462	462	462	462	462
2.5°	465	464	460	461	459
5°	465	463	460	461	459
7.5°	462	461	458	460	459
10°	459	458	456	459	458
12.5°	455	455	454	457	457
15°	448	451	450	455	455
17.5°	443	445	446	452	453
20°	435	439	441	447	450
22.5°	428	432	435	443	446
25°	419	423	428	437	440
27.5°	408	415	420	431	434
30°	399	404	411	422	426
32.5°	388	394	401	413	418
35°	376	382	390	403	407
37.5°	364	369	378	391	396
40°	351	356	365	379	383
42.5°	338	343	352	365	370
45°	324	329	337	349	355
47.5°	309	314	322	334	340
50°	294	298	306	317	323
52.5°	277	281	289	299	305
55°	260	264	272	281	288
57.5°	242	246	252	262	270
60°	223	227	233	244	251
62.5°	203	207	214	226	237
65°	183	187	195	213	224
67.5°	163	167	174	200	218
70°	142	146	158	194	206
72.5°	120	126	146	179	184
75°	99	105	137	153	157
77.5°	77	86	119	126	128
80°	58	71	93	102	103
82.5°	39	61	72	78	78
85°	23	42	53	59	59
87.5°	13	28	39	46	45
90°	3	5	5	4	4
92.5°	36	98	32	30	30
95°	67	524	386	65	65
97.5°	93	637	1093	1323	995
100°	127	764	1163	1433	1523
102.5°	160	811	1229	1473	1563
105°	198	832	1300	1529	1612
107.5°	235	844	1387	1578	1658
110°	273	850	1439	1635	1704



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308	855	1419	1701	1757
115°	345	860	1407	1739	1816
117.5°	381	863	1393	1700	1816
120°	417	868	1381	1674	1775
122.5°	447	874	1367	1651	1747
125°	481	879	1351	1626	1720
127.5°	514	884	1333	1600	1693
130°	543	895	1315	1574	1660
132.5°	569	901	1295	1543	1628
135°	595	903	1274	1513	1594
137.5°	620	902	1253	1479	1556
140°	646	899	1227	1444	1517
142.5°	669	893	1201	1405	1473
145°	691	886	1174	1364	1428
147.5°	710	875	1153	1320	1382
150°	728	863	1128	1275	1330
152.5°	741	852	1097	1232	1278
155°	757	842	1059	1194	1235
157.5°	767	834	1019	1147	1187
160°	780	828	978	1096	1133
162.5°	789	822	933	1039	1075
165°	795	817	892	979	1012
167.5°	801	815	862	916	942
170°	806	813	841	869	883
172.5°	809	812	824	839	846
175°	811	812	817	820	822
177.5°	812	812	812	811	812
180°	811	811	811	811	811

(END OF REPORT)