

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: G3-1805-784-15

Luminaire Tested: **J3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-15
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-30L83050-1D-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: 3012.5 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Indirect

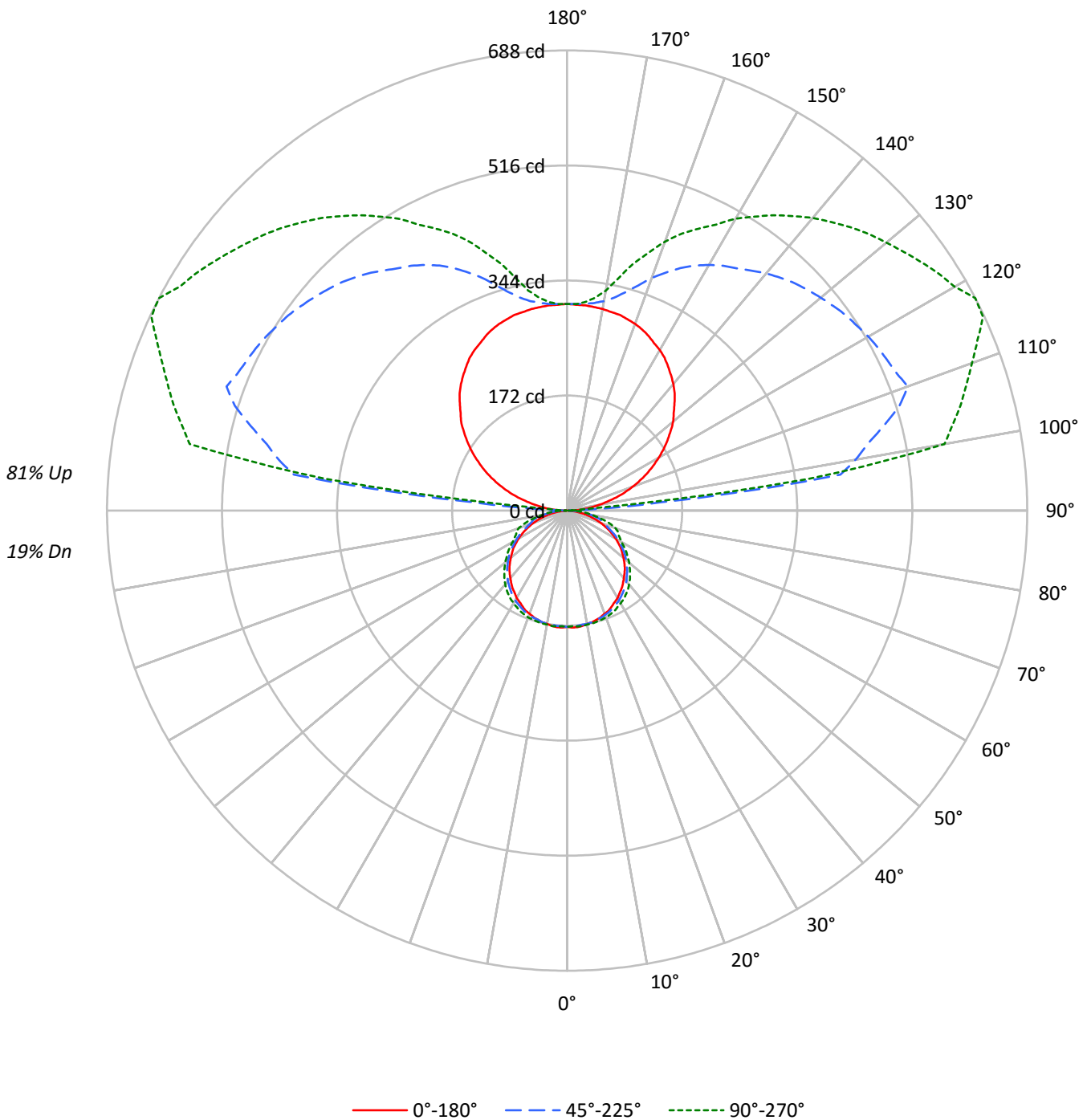
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: G3-1805-784-15

CATALOG NUMBER: J3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: G3-1805-784-15

CATALOG NUMBER: J3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

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	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	86	83	79	80	76	73	70	57	55	53	40	39	37	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	19	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°	936	936	936
5°	945	935	940
10°	940	940	945
15°	942	942	958
20°	939	951	974
25°	938	956	986
30°	938	963	994
35°	933	966	1005
40°	927	970	1012
45°	929	967	1012
50°	921	963	1013
55°	920	957	1013
60°	904	947	1012
65°	879	930	1070
70°	834	944	1212
75°	769	1081	1227
80°	682	1085	1178
85°	556	1235	1359



TEST NUMBER: G3-1805-784-15

CATALOG NUMBER: J3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	0.5
10°-20°	48.1	1.6
20°-30°	74.6	2.5
30°-40°	92.2	3.1
40°-50°	98.3	3.3
50°-60°	91.6	3.0
60°-70°	74.7	2.5
70°-80°	51.3	1.7
80°-90°	20.0	0.7
90°-100°	176.0	5.8
100°-110°	455.1	15.1
110°-120°	471.9	15.7
120°-130°	419.4	13.9
130°-140°	349.5	11.6
140°-150°	266.5	8.8
150°-160°	179.6	6.0
160°-170°	97.3	3.2
170°-180°	29.9	1.0
0°-30°	139.2	4.6
0°-40°	231.4	7.7
0°-60°	421.3	14.0
0°-90°	567.2	18.8
90°-120°	1103.0	36.6
90°-150°	2138.4	71.0
90°-180°	2445.0	81.2
0°-180°	3012.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	174	174	174	174	174	
5°	175	174	173	173	174	17
15°	169	169	169	171	172	48
25°	158	159	161	165	166	73
35°	142	143	147	152	153	89
45°	122	124	127	132	133	94
55°	98	99	102	106	108	87
65°	69	71	73	80	84	68
75°	37	40	52	58	59	39
85°	9	16	20	22	22	10
90°	1	2	2	1	1	3
95°	25	197	139	24	24	25
105°	76	315	490	578	609	80
115°	132	325	529	660	686	130
125°	183	332	509	614	647	164
135°	227	342	481	571	599	175
145°	263	336	442	516	539	165
155°	288	321	400	452	465	133
165°	303	311	338	371	382	86
175°	308	309	310	312	313	29
180°	309	309	309	309	309	



TEST NUMBER: G3-1805-784-15

CATALOG NUMBER: J3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	174	174	174	174	174
2.5°	175	175	173	173	173
5°	175	174	173	173	174
7.5°	174	174	172	173	174
10°	172	172	172	173	173
12.5°	171	171	171	172	173
15°	169	169	169	171	172
17.5°	167	167	168	170	171
20°	164	165	166	169	170
22.5°	162	162	164	167	168
25°	158	159	161	165	166
27.5°	154	155	158	162	163
30°	151	152	155	159	160
32.5°	146	148	151	156	157
35°	142	143	147	152	153
37.5°	137	139	142	147	149
40°	132	134	138	143	144
42.5°	127	129	132	137	139
45°	122	124	127	132	133
47.5°	116	118	121	126	127
50°	110	112	115	119	121
52.5°	104	106	109	113	114
55°	98	99	102	106	108
57.5°	91	93	95	99	101
60°	84	85	88	92	94
62.5°	76	78	81	85	89
65°	69	71	73	80	84
67.5°	61	63	66	75	82
70°	53	55	60	73	77
72.5°	45	47	55	67	69
75°	37	40	52	58	59
77.5°	29	32	44	47	48
80°	22	27	35	38	38
82.5°	15	23	27	29	30
85°	9	16	20	22	22
87.5°	5	10	14	17	16
90°	1	2	2	1	1
92.5°	14	41	12	11	11
95°	25	197	139	24	24
97.5°	36	241	412	485	365
100°	48	286	438	542	573
102.5°	61	307	460	557	590
105°	76	315	490	578	609
107.5°	90	320	521	597	626
110°	104	322	542	619	644



TEST NUMBER: G3-1805-784-15

CATALOG NUMBER: J3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	118	324	534	645	664
115°	132	325	529	660	686
117.5°	145	327	525	645	688
120°	158	329	520	633	669
122.5°	171	331	514	624	659
125°	183	332	509	614	647
127.5°	195	334	502	604	635
130°	207	338	495	593	623
132.5°	216	341	488	583	612
135°	227	342	481	571	599
137.5°	238	342	472	559	585
140°	247	341	463	545	571
142.5°	255	339	452	531	555
145°	263	336	442	516	539
147.5°	271	333	434	500	521
150°	277	329	424	483	504
152.5°	282	324	413	467	482
155°	288	321	400	452	465
157.5°	293	317	385	436	448
160°	297	315	370	415	428
162.5°	300	312	353	394	404
165°	303	311	338	371	382
167.5°	304	309	326	347	356
170°	306	309	318	330	334
172.5°	307	309	313	319	321
175°	308	309	310	312	313
177.5°	308	309	309	309	309
180°	309	309	309	309	309

(END OF REPORT)