

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: G3-1805-784-16

Luminaire Tested: **J3-UL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-16
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-40L83050-1D-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: 4012.9 lumens
Efficiency: N/A
Efficacy: 143.8 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

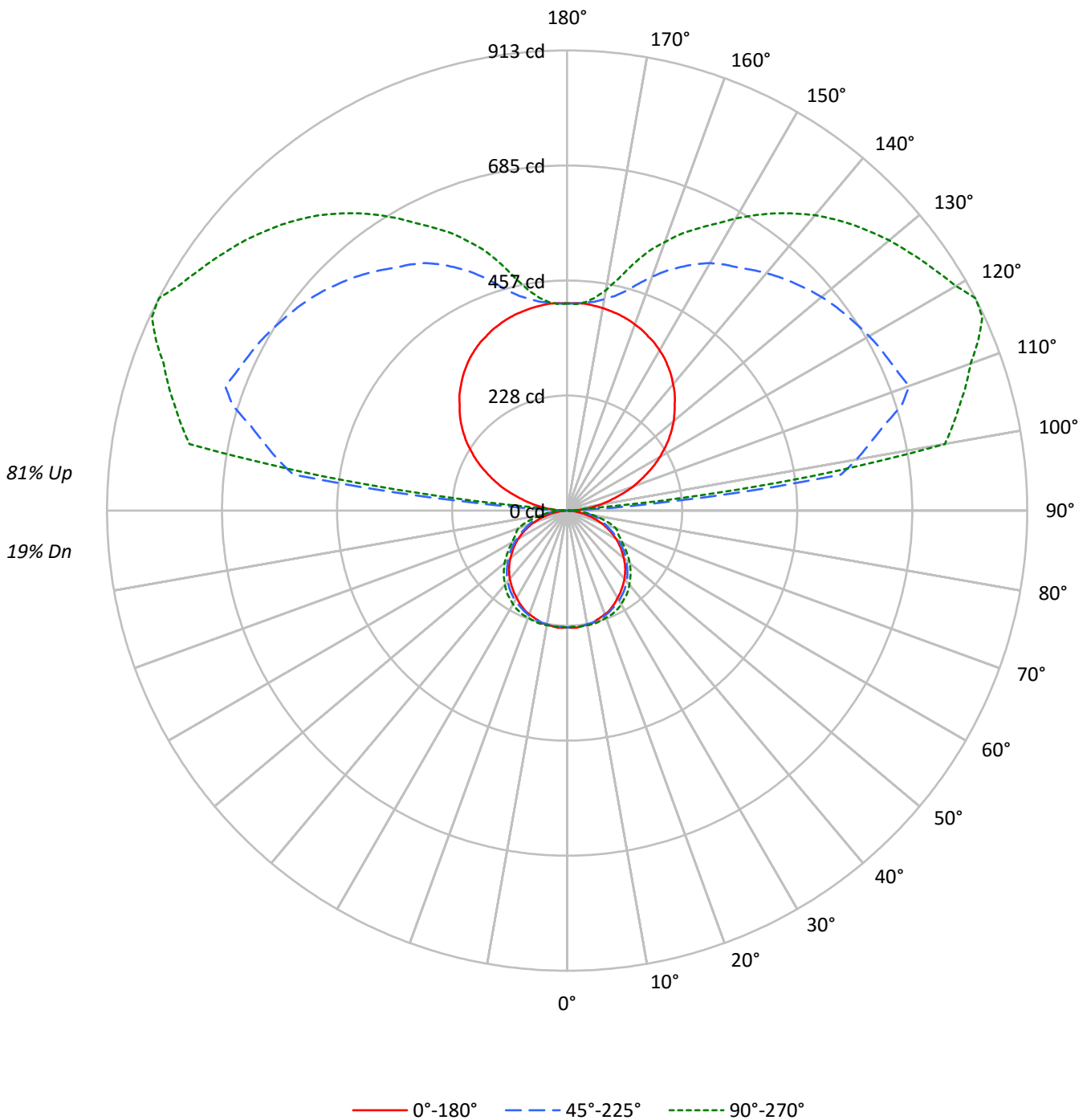
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1249	1249	1249
5°	1259	1248	1248
10°	1257	1251	1262
15°	1254	1259	1282
20°	1254	1266	1294
25°	1253	1271	1318
30°	1243	1280	1336
35°	1242	1288	1347
40°	1244	1286	1349
45°	1241	1286	1355
50°	1231	1281	1356
55°	1220	1276	1351
60°	1206	1259	1356
65°	1172	1248	1426
70°	1133	1259	1621
75°	1040	1435	1643
80°	899	1457	1581
85°	679	1606	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	0.5
10°-20°	64.2	1.6
20°-30°	99.4	2.5
30°-40°	122.9	3.1
40°-50°	131.0	3.3
50°-60°	122.1	3.0
60°-70°	99.7	2.5
70°-80°	68.6	1.7
80°-90°	26.9	0.7
90°-100°	233.6	5.8
100°-110°	605.6	15.1
110°-120°	628.3	15.7
120°-130°	559.2	13.9
130°-140°	465.9	11.6
140°-150°	354.8	8.8
150°-160°	239.0	6.0
160°-170°	129.7	3.2
170°-180°	39.9	1.0
0°-30°	185.6	4.6
0°-40°	308.5	7.7
0°-60°	561.7	14.0
0°-90°	756.9	18.9
90°-120°	1467.5	36.6
90°-150°	2847.4	71.0
90°-180°	3256.0	81.1
0°-180°	4012.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	232	232	232	232	232	
5°	233	233	231	231	231	22
15°	225	226	226	229	230	64
25°	211	211	214	220	222	97
35°	189	191	196	202	205	118
45°	163	165	169	175	178	126
55°	130	133	136	140	144	116
65°	92	94	98	107	112	91
75°	50	53	69	77	79	53
85°	11	21	26	30	29	13
90°	2	2	2	2	2	4
95°	34	264	203	33	32	34
105°	99	419	650	770	806	106
115°	175	433	705	880	909	174
125°	246	443	676	820	862	219
135°	302	455	638	763	802	233
145°	349	447	589	686	720	218
155°	381	427	533	601	618	176
165°	402	415	451	493	506	114
175°	412	414	414	416	415	39
180°	411	411	411	411	411	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	232	232	232	232	232
2.5°	233	233	231	231	231
5°	233	233	231	231	231
7.5°	231	232	231	231	231
10°	230	230	229	230	231
12.5°	229	229	228	230	231
15°	225	226	226	229	230
17.5°	222	223	224	227	228
20°	219	219	221	225	226
22.5°	216	216	218	223	225
25°	211	211	214	220	222
27.5°	206	207	210	216	219
30°	200	202	206	212	215
32.5°	195	197	201	207	209
35°	189	191	196	202	205
37.5°	183	185	190	196	199
40°	177	179	183	190	192
42.5°	170	172	177	183	185
45°	163	165	169	175	178
47.5°	155	158	161	167	170
50°	147	150	153	159	162
52.5°	138	142	145	150	153
55°	130	133	136	140	144
57.5°	121	124	127	132	135
60°	112	114	117	122	126
62.5°	102	105	107	113	119
65°	92	94	98	107	112
67.5°	82	84	88	101	109
70°	72	74	80	98	103
72.5°	60	63	73	90	92
75°	50	53	69	77	79
77.5°	39	43	59	64	65
80°	29	36	47	51	51
82.5°	19	30	36	40	40
85°	11	21	26	30	29
87.5°	7	14	20	23	22
90°	2	2	2	2	2
92.5°	19	53	16	15	15
95°	34	264	203	33	32
97.5°	48	322	548	647	420
100°	65	383	583	721	761
102.5°	81	409	615	741	784
105°	99	419	650	770	806
107.5°	119	425	696	794	830
110°	139	428	722	826	852



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	157	430	712	859	883
115°	175	433	705	880	909
117.5°	195	435	699	860	913
120°	212	438	692	846	891
122.5°	229	441	684	833	876
125°	246	443	676	820	862
127.5°	261	445	668	806	848
130°	276	451	659	793	834
132.5°	289	455	649	777	818
135°	302	455	638	763	802
137.5°	316	455	627	745	784
140°	327	453	615	727	765
142.5°	339	451	602	708	743
145°	349	447	589	686	720
147.5°	359	442	579	664	695
150°	367	437	567	642	669
152.5°	375	431	551	621	642
155°	381	427	533	601	618
157.5°	388	424	515	578	595
160°	393	420	494	552	567
162.5°	398	417	472	524	540
165°	402	415	451	493	506
167.5°	405	414	436	462	471
170°	408	413	426	441	444
172.5°	410	413	418	425	426
175°	412	414	414	416	415
177.5°	412	413	411	412	410
180°	411	411	411	411	411

(END OF REPORT)