

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: G3-1805-784-18

Luminaire Tested: **J3-UL-80L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-18
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-80L83050-1D-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: 6036.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.43
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Indirect

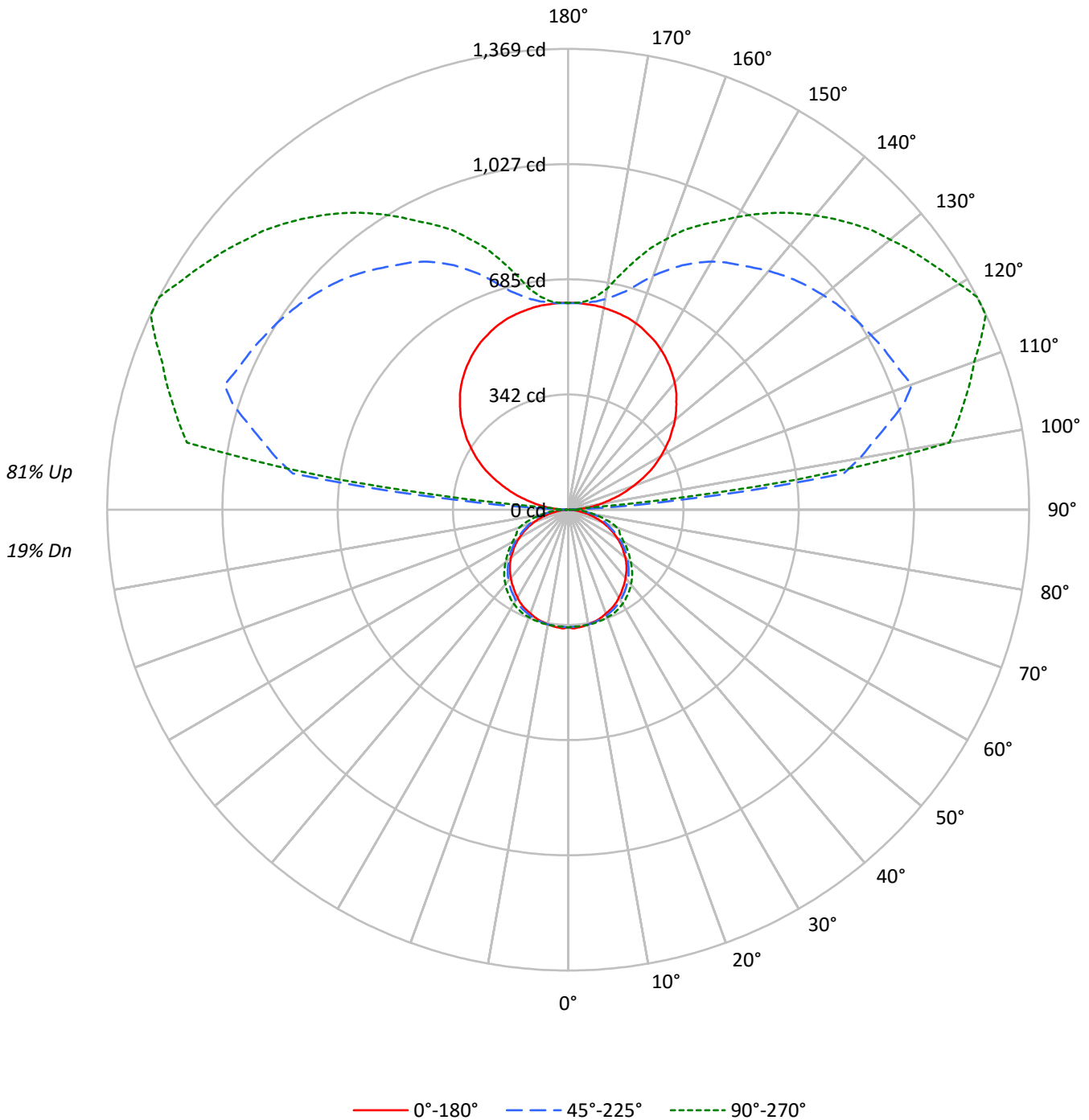
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1884	1884	1884
5°	1896	1880	1880
10°	1891	1891	1896
15°	1889	1900	1917
20°	1879	1913	1947
25°	1882	1924	1983
30°	1871	1933	2007
35°	1859	1932	2024
40°	1862	1932	2037
45°	1865	1933	2047
50°	1859	1926	2035
55°	1839	1914	2036
60°	1808	1894	2045
65°	1770	1872	2152
70°	1684	1888	2423
75°	1560	2163	2433
80°	1333	2201	2417
85°	1050	2470	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	0.6
10°-20°	96.7	1.6
20°-30°	149.8	2.5
30°-40°	184.7	3.1
40°-50°	196.9	3.3
50°-60°	183.6	3.0
60°-70°	150.0	2.5
70°-80°	103.3	1.7
80°-90°	40.9	0.7
90°-100°	355.7	5.9
100°-110°	911.7	15.1
110°-120°	944.0	15.6
120°-130°	840.5	13.9
130°-140°	699.8	11.6
140°-150°	532.8	8.8
150°-160°	358.5	5.9
160°-170°	194.4	3.2
170°-180°	59.6	1.0
0°-30°	279.7	4.6
0°-40°	464.4	7.7
0°-60°	844.9	14.0
0°-90°	1139.0	18.9
90°-120°	2211.4	36.6
90°-150°	4284.4	71.0
90°-180°	4897.0	81.1
0°-180°	6036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	351	350	348	348	348	33
15°	339	340	341	345	344	96
25°	317	319	324	331	334	146
35°	283	287	294	303	308	178
45°	245	247	254	263	269	189
55°	196	199	204	211	217	175
65°	139	142	147	161	169	137
75°	75	80	104	116	117	79
85°	17	32	40	46	45	20
90°	2	3	4	3	3	5
95°	50	396	332	49	48	50
105°	150	629	983	1161	1216	158
115°	265	652	1059	1319	1368	261
125°	368	667	1016	1234	1295	328
135°	454	685	961	1144	1200	351
145°	523	670	887	1033	1077	327
155°	571	638	801	904	933	264
165°	601	621	673	740	765	170
175°	613	616	617	621	622	58
180°	614	614	614	614	614	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	350	350	350	350	350
2.5°	353	351	348	348	347
5°	351	350	348	348	348
7.5°	349	349	347	348	347
10°	346	347	346	348	347
12.5°	342	344	344	347	346
15°	339	340	341	345	344
17.5°	334	336	338	343	343
20°	328	331	334	340	340
22.5°	323	326	329	336	338
25°	317	319	324	331	334
27.5°	310	312	318	325	329
30°	301	305	311	319	323
32.5°	293	297	302	312	316
35°	283	287	294	303	308
37.5°	275	279	285	294	300
40°	265	268	275	284	290
42.5°	255	259	265	275	280
45°	245	247	254	263	269
47.5°	234	236	242	252	256
50°	222	225	230	239	243
52.5°	208	212	218	225	230
55°	196	199	204	211	217
57.5°	183	186	191	198	204
60°	168	171	176	185	190
62.5°	153	157	161	170	179
65°	139	142	147	161	169
67.5°	123	127	132	152	164
70°	107	111	120	147	154
72.5°	92	95	110	136	138
75°	75	80	104	116	117
77.5°	58	65	89	97	98
80°	43	54	71	77	78
82.5°	30	46	55	60	60
85°	17	32	40	46	45
87.5°	10	21	30	35	34
90°	2	3	4	3	3
92.5°	26	84	23	23	22
95°	50	396	332	49	48
97.5°	72	481	825	985	685
100°	97	572	879	1085	1150
102.5°	121	611	927	1118	1183
105°	150	629	983	1161	1216
107.5°	178	638	1045	1198	1251
110°	206	644	1086	1240	1283



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	235	648	1070	1290	1327
115°	265	652	1059	1319	1368
117.5°	292	655	1050	1291	1369
120°	318	659	1038	1271	1341
122.5°	342	664	1028	1253	1318
125°	368	667	1016	1234	1295
127.5°	390	671	1004	1211	1273
130°	414	678	990	1191	1248
132.5°	435	683	976	1169	1227
135°	454	685	961	1144	1200
137.5°	475	684	944	1119	1171
140°	492	680	926	1092	1141
142.5°	508	677	906	1064	1110
145°	523	670	887	1033	1077
147.5°	537	663	871	1001	1041
150°	550	653	851	964	1004
152.5°	562	645	827	932	966
155°	571	638	801	904	933
157.5°	581	633	770	868	899
160°	589	628	740	827	856
162.5°	596	624	705	787	815
165°	601	621	673	740	765
167.5°	605	618	652	691	715
170°	609	617	635	658	667
172.5°	612	617	624	635	639
175°	613	616	617	621	622
177.5°	615	617	614	615	615
180°	614	614	614	614	614

(END OF REPORT)