

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: G3-1805-784-14

Luminaire Tested: **J3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-14
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-20L83050-1D-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: 2342.5 lumens
Efficiency: N/A
Efficacy: 144.6 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

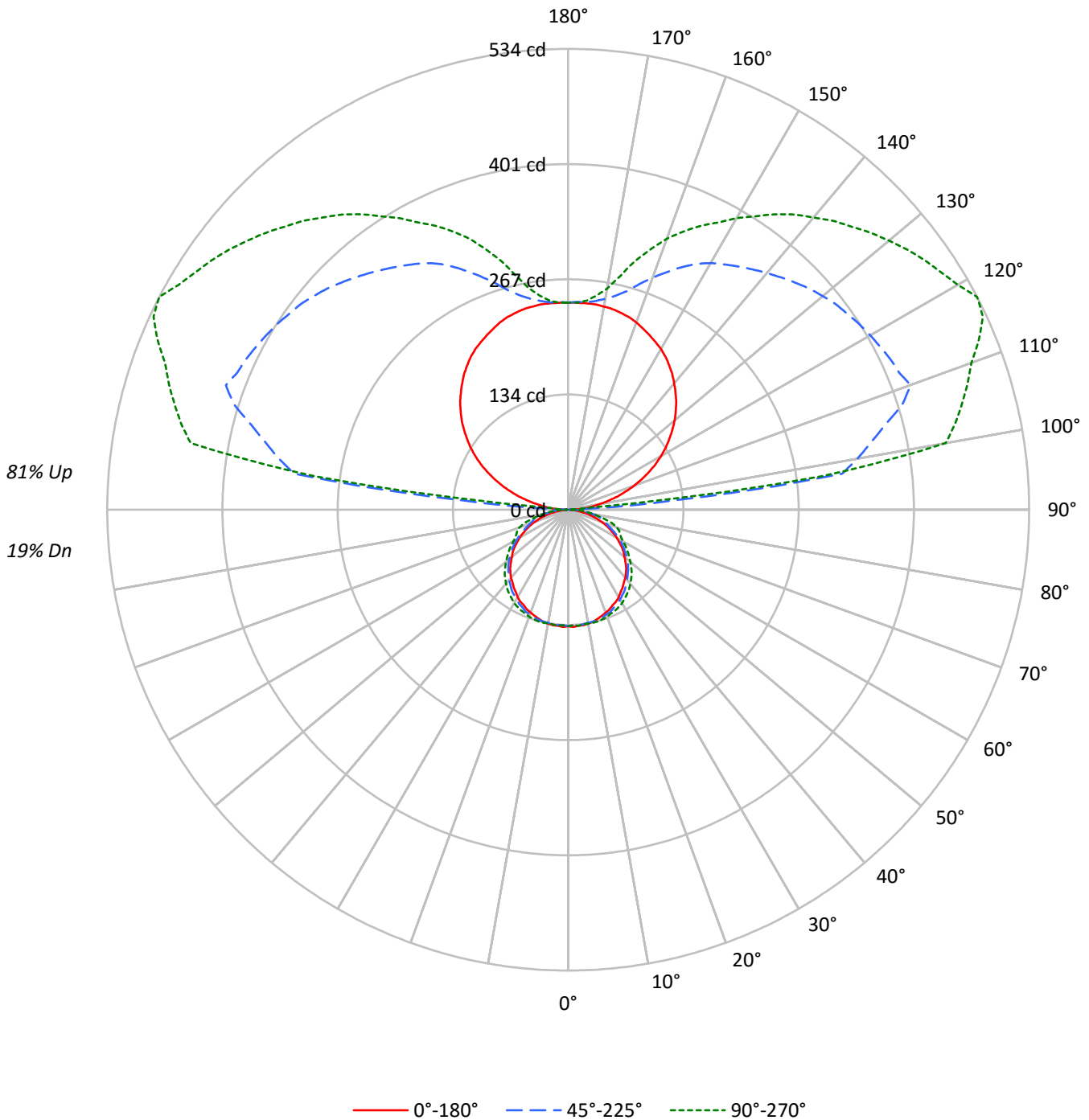
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	27	27	27	19
1	91	86	82	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	19	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°	727	727	727
5°	729	724	729
10°	732	727	732
15°	730	735	747
20°	727	739	756
25°	724	742	766
30°	727	746	777
35°	723	749	782
40°	724	745	787
45°	723	746	792
50°	712	745	787
55°	713	741	788
60°	700	732	786
65°	675	726	840
70°	645	740	944
75°	603	853	957
80°	496	837	930
85°	432	926	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.5
10°-20°	37.4	1.6
20°-30°	57.9	2.5
30°-40°	71.5	3.1
40°-50°	76.2	3.3
50°-60°	71.1	3.0
60°-70°	58.2	2.5
70°-80°	40.1	1.7
80°-90°	15.6	0.7
90°-100°	139.5	6.0
100°-110°	353.2	15.1
110°-120°	366.1	15.6
120°-130°	326.4	13.9
130°-140°	271.6	11.6
140°-150°	206.7	8.8
150°-160°	139.2	5.9
160°-170°	75.7	3.2
170°-180°	23.3	1.0
0°-30°	108.2	4.6
0°-40°	179.6	7.7
0°-60°	326.9	14.0
0°-90°	440.7	18.8
90°-120°	858.9	36.7
90°-150°	1663.6	71.0
90°-180°	1902.0	81.2
0°-180°	2342.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	135	135	135	135	135	
5°	135	135	134	135	135	13
15°	131	132	132	133	134	37
25°	122	123	125	128	129	56
35°	110	111	114	118	119	69
45°	95	96	98	102	104	73
55°	76	77	79	82	84	68
65°	53	55	57	63	66	53
75°	29	31	41	45	46	30
85°	7	12	15	17	17	8
90°	1	1	1	1	1	2
95°	20	154	122	19	19	20
105°	59	244	380	449	472	62
115°	103	252	412	512	530	102
125°	143	258	395	479	504	128
135°	177	266	372	445	464	136
145°	204	261	344	400	418	128
155°	223	248	310	350	363	103
165°	236	242	262	288	298	67
175°	240	240	241	243	243	23
180°	240	240	240	240	240	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	135	135	135	135	135
2.5°	136	136	134	135	134
5°	135	135	134	135	135
7.5°	135	135	134	135	134
10°	134	134	133	134	134
12.5°	133	133	133	134	134
15°	131	132	132	133	134
17.5°	129	130	131	132	133
20°	127	128	129	131	132
22.5°	125	126	128	130	130
25°	122	123	125	128	129
27.5°	120	121	123	126	127
30°	117	118	120	124	125
32.5°	113	115	117	121	122
35°	110	111	114	118	119
37.5°	106	107	110	114	116
40°	103	104	106	110	112
42.5°	99	100	102	106	108
45°	95	96	98	102	104
47.5°	90	92	94	97	99
50°	85	87	89	93	94
52.5°	81	82	84	87	89
55°	76	77	79	82	84
57.5°	70	72	74	77	79
60°	65	67	68	72	73
62.5°	59	61	63	66	69
65°	53	55	57	63	66
67.5°	48	49	51	59	64
70°	41	43	47	57	60
72.5°	35	37	43	52	54
75°	29	31	41	45	46
77.5°	23	25	35	37	37
80°	16	21	27	30	30
82.5°	11	18	21	23	23
85°	7	12	15	17	17
87.5°	4	8	12	13	13
90°	1	1	1	1	1
92.5°	11	32	9	9	9
95°	20	154	122	19	19
97.5°	28	187	320	396	296
100°	37	222	340	420	444
102.5°	47	238	359	433	459
105°	59	244	380	449	472
107.5°	70	247	406	463	485
110°	81	249	422	479	497



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92	250	415	500	515
115°	103	252	412	512	530
117.5°	114	253	408	500	534
120°	124	255	404	493	521
122.5°	134	256	400	486	512
125°	143	258	395	479	504
127.5°	152	260	391	471	495
130°	161	263	385	463	485
132.5°	169	265	379	454	475
135°	177	266	372	445	464
137.5°	184	266	365	435	454
140°	191	265	358	424	442
142.5°	198	264	351	412	431
145°	204	261	344	400	418
147.5°	210	258	337	387	403
150°	215	254	330	373	390
152.5°	219	251	321	361	375
155°	223	248	310	350	363
157.5°	227	246	298	337	349
160°	231	245	286	322	334
162.5°	234	243	274	305	316
165°	236	242	262	288	298
167.5°	238	241	254	269	277
170°	239	240	248	256	260
172.5°	240	240	244	248	250
175°	240	240	241	243	243
177.5°	240	241	241	241	240
180°	240	240	240	240	240

(END OF REPORT)