

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: P253594

Luminaire Tested: **J3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-50L93050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4679.9 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

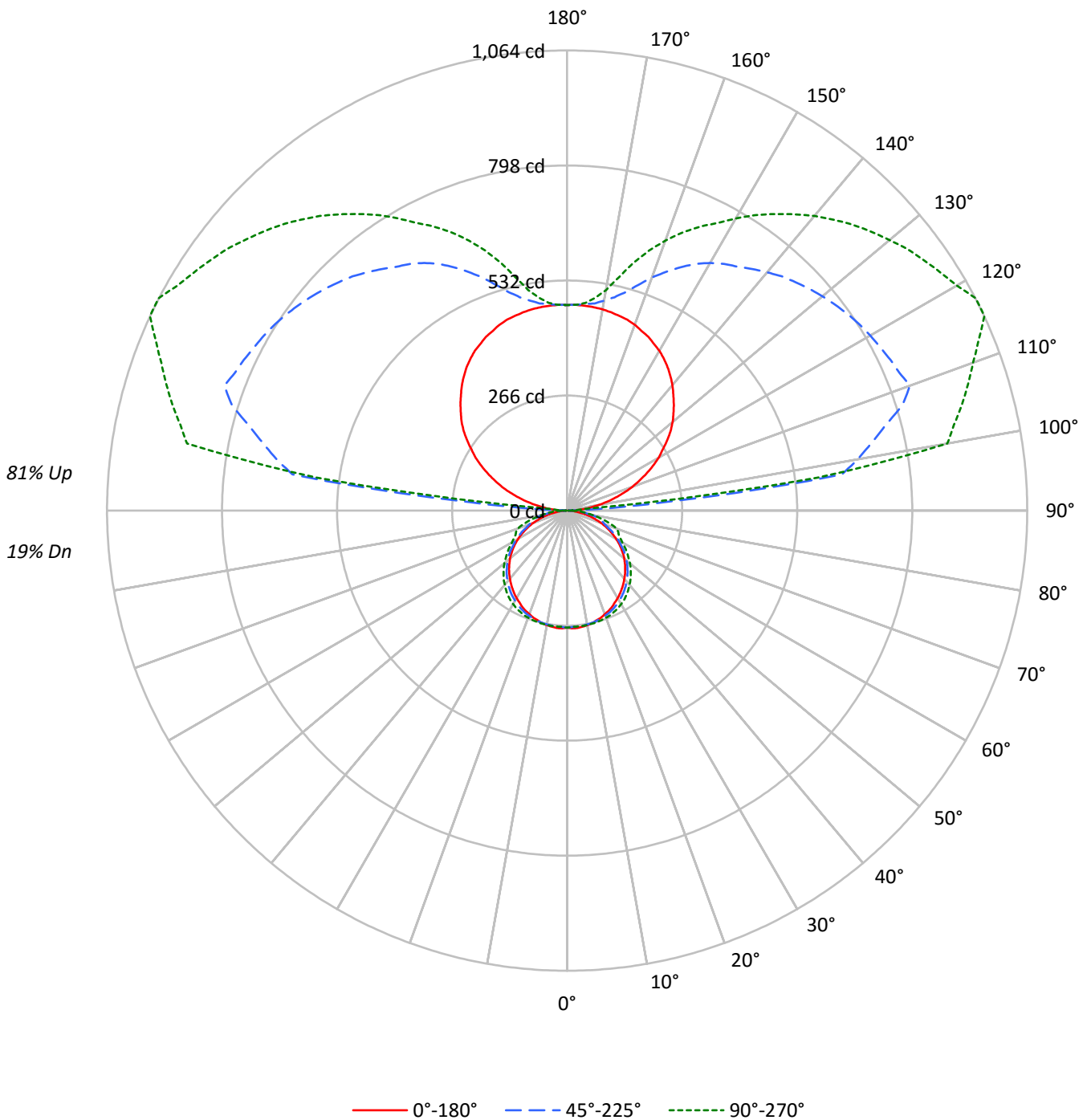
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2186	2186	2186
5°	2209	2185	2181
10°	2206	2191	2201
15°	2195	2205	2229
20°	2191	2221	2266
25°	2188	2235	2297
30°	2180	2246	2328
35°	2172	2253	2351
40°	2168	2255	2366
45°	2168	2255	2376
50°	2164	2253	2377
55°	2145	2244	2376
60°	2110	2206	2375
65°	2050	2183	2508
70°	1964	2186	2851
75°	1809	2505	2870
80°	1581	2534	2808
85°	1250	2881	3205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	0.6
10°-20°	74.9	1.6
20°-30°	116.1	2.5
30°-40°	143.6	3.1
40°-50°	153.2	3.3
50°-60°	142.7	3.0
60°-70°	116.2	2.5
70°-80°	80.0	1.7
80°-90°	31.5	0.7
90°-100°	276.1	5.9
100°-110°	706.7	15.1
110°-120°	731.4	15.6
120°-130°	651.6	13.9
130°-140°	542.6	11.6
140°-150°	413.1	8.8
150°-160°	277.9	5.9
160°-170°	150.6	3.2
170°-180°	46.1	1.0
0°-30°	216.7	4.6
0°-40°	360.3	7.7
0°-60°	656.2	14.0
0°-90°	883.9	18.9
90°-120°	1714.1	36.6
90°-150°	3321.4	71.0
90°-180°	3796.0	81.1
0°-180°	4679.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	271	271	271	271	271	
5°	273	271	270	270	269	26
15°	263	264	264	267	267	74
25°	246	248	251	256	258	113
35°	220	224	229	236	239	138
45°	190	193	198	205	208	146
55°	152	155	159	165	169	136
65°	107	110	114	125	131	106
75°	58	62	80	90	92	61
85°	14	25	31	35	35	16
90°	2	3	3	2	2	4
95°	39	307	226	38	38	39
105°	116	488	762	896	945	123
115°	202	504	825	1019	1064	200
125°	282	515	792	953	1008	252
135°	349	529	747	887	934	269
145°	405	519	688	800	837	253
155°	444	494	621	700	724	204
165°	466	479	523	574	593	132
175°	475	476	479	481	482	45
180°	475	475	475	475	475	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	270.8	270.8	270.8	270.8	270.8
2.5°	272.6	272.0	269.6	270.2	269.1
5°	272.6	271.4	269.6	270.2	269.1
7.5°	270.8	270.2	268.5	269.6	269.1
10°	269.1	268.5	267.3	269.1	268.5
12.5°	266.7	266.7	266.1	267.9	267.9
15°	262.6	264.4	263.8	266.7	266.7
17.5°	259.7	260.8	261.4	265.0	265.5
20°	255.0	257.3	258.5	262.0	263.8
22.5°	250.9	253.2	255.0	259.7	261.4
25°	245.6	248.0	250.9	256.2	257.9
27.5°	239.2	243.3	246.2	252.6	254.4
30°	233.9	236.8	240.9	247.4	249.7
32.5°	227.4	231.0	235.1	242.1	245.0
35°	220.4	223.9	228.6	236.2	238.6
37.5°	213.4	216.3	221.6	229.2	232.1
40°	205.7	208.7	214.0	222.2	224.5
42.5°	198.1	201.1	206.3	214.0	216.9
45°	189.9	192.9	197.5	204.6	208.1
47.5°	181.1	184.1	188.7	195.8	199.3
50°	172.3	174.7	179.4	185.8	189.3
52.5°	162.4	164.7	169.4	175.3	178.8
55°	152.4	154.8	159.4	164.7	168.8
57.5°	141.9	144.2	147.7	153.6	158.3
60°	130.7	133.1	136.6	143.0	147.1
62.5°	119.0	121.3	125.4	132.5	138.9
65°	107.3	109.6	114.3	124.9	131.3
67.5°	95.5	97.9	102.0	117.2	127.8
70°	83.2	85.6	92.6	113.7	120.8
72.5°	70.3	73.9	85.6	104.9	107.9
75°	58.0	61.5	80.3	89.7	92.0
77.5°	45.1	50.4	69.8	73.9	75.0
80°	34.0	41.6	54.5	59.8	60.4
82.5°	22.9	35.8	42.2	45.7	45.7
85°	13.5	24.6	31.1	34.6	34.6
87.5°	7.6	16.4	22.9	27.0	26.4
90°	1.8	2.9	2.9	2.3	2.3
92.5°	21.1	57.4	18.8	17.6	17.6
95°	39.3	307.2	226.3	38.1	38.1
97.5°	54.5	373.4	640.7	775.5	583.2
100°	74.4	447.8	681.7	840.0	892.7
102.5°	93.8	475.4	720.4	863.4	916.2
105°	116.1	487.7	762.0	896.3	944.9
107.5°	137.8	494.7	813.0	925.0	971.9
110°	160.0	498.2	843.5	958.4	998.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.5	501.2	831.8	997.1	1029.9
115°	202.2	504.1	824.7	1019.4	1064.5
117.5°	223.3	505.9	816.5	996.5	1064.5
120°	244.4	508.8	809.5	981.3	1040.5
122.5°	262.0	512.3	801.3	967.8	1024.0
125°	282.0	515.2	791.9	953.1	1008.2
127.5°	301.3	518.2	781.4	937.9	992.4
130°	318.3	524.6	770.8	922.6	973.1
132.5°	333.5	528.1	759.1	904.5	954.3
135°	348.8	529.3	746.8	886.9	934.4
137.5°	363.4	528.7	734.5	867.0	912.1
140°	378.7	527.0	719.2	846.4	889.2
142.5°	392.2	523.5	704.0	823.6	863.4
145°	405.0	519.4	688.2	799.5	837.1
147.5°	416.2	512.9	675.9	773.8	810.1
150°	426.7	505.9	661.2	747.4	779.6
152.5°	434.4	499.4	643.0	722.2	749.1
155°	443.7	493.6	620.8	699.9	723.9
157.5°	449.6	488.9	597.3	672.3	695.8
160°	457.2	485.4	573.3	642.4	664.1
162.5°	462.5	481.8	546.9	609.0	630.1
165°	466.0	478.9	522.9	573.9	593.2
167.5°	469.5	477.7	505.3	536.9	552.2
170°	472.5	476.6	493.0	509.4	517.6
172.5°	474.2	476.0	483.0	491.8	495.9
175°	475.4	476.0	478.9	480.7	481.8
177.5°	476.0	476.0	476.0	475.4	476.0
180°	475.4	475.4	475.4	475.4	475.4

(END OF REPORT)