

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: P253490

Luminaire Tested: **J3-CL-40L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-40L93050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR 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: 3589.6 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

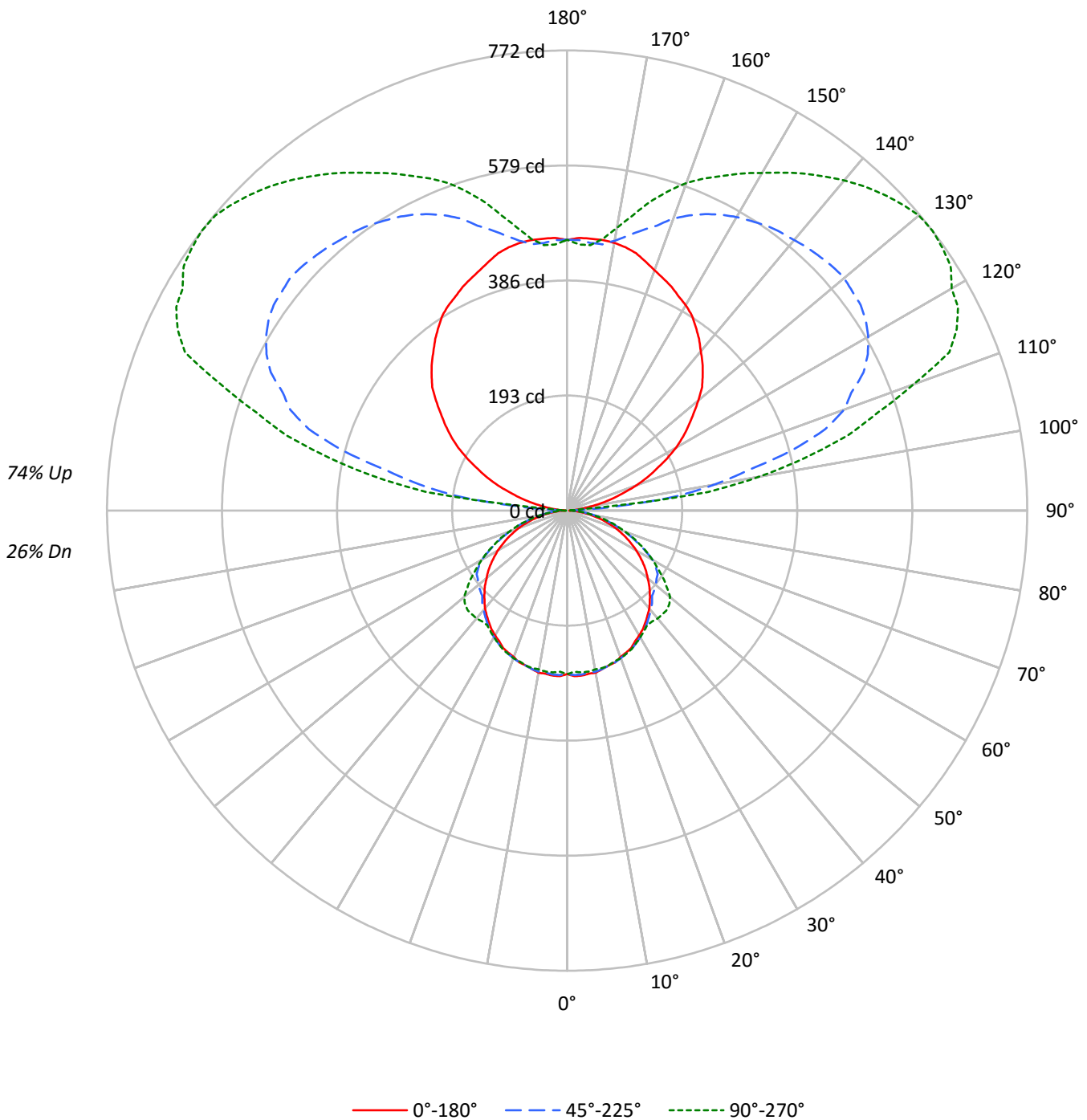
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2214	2214	2214
5°	2253	2237	2208
10°	2263	2249	2219
15°	2247	2247	2247
20°	2247	2263	2263
25°	2265	2282	2282
30°	2252	2287	2287
35°	2256	2291	2310
40°	2259	2297	2489
45°	2240	2303	2697
50°	2213	2442	2830
55°	2198	2608	2761
60°	2170	2669	2669
65°	2117	2533	2567
70°	2058	2400	2445
75°	1928	2268	2324
80°	1776	2194	2111
85°	1686	2353	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.7
10°-20°	75.9	2.1
20°-30°	117.3	3.3
30°-40°	145.5	4.1
40°-50°	162.9	4.5
50°-60°	159.1	4.4
60°-70°	125.6	3.5
70°-80°	76.0	2.1
80°-90°	27.0	0.8
90°-100°	93.2	2.6
100°-110°	360.6	10.0
110°-120°	495.5	13.8
120°-130°	501.3	14.0
130°-140°	444.3	12.4
140°-150°	351.4	9.8
150°-160°	245.4	6.8
160°-170°	138.8	3.9
170°-180°	43.5	1.2
0°-30°	219.4	6.1
0°-40°	365.0	10.2
0°-60°	687.0	19.1
0°-90°	915.6	25.5
90°-120°	949.3	26.4
90°-150°	2246.3	62.6
90°-180°	2674.0	74.5
0°-180°	3589.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	278	274	276	274	272	26
15°	269	267	269	269	269	76
25°	254	251	256	256	256	117
35°	229	229	232	234	234	143
45°	196	198	202	227	236	151
55°	156	158	185	196	196	140
65°	111	116	133	134	134	109
75°	62	73	73	74	74	65
85°	18	29	25	24	22	19
90°	4	11	9	2	2	3
95°	14	73	87	18	18	18
105°	80	258	391	451	487	85
115°	165	349	549	680	721	165
125°	249	403	601	732	768	223
135°	322	443	601	719	750	248
145°	376	454	583	669	690	235
155°	414	443	549	609	620	191
165°	447	445	487	529	536	126
175°	458	452	451	451	447	44
180°	454	454	454	454	454	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	274.3	274.3	274.3	274.3	274.3
2.5°	278.0	274.3	276.1	274.3	270.7
5°	278.0	274.3	276.1	274.3	272.5
7.5°	276.1	274.3	274.3	272.5	272.5
10°	276.1	272.5	274.3	272.5	270.7
12.5°	272.5	270.7	272.5	270.7	270.7
15°	268.9	267.1	268.9	268.9	268.9
17.5°	267.1	263.4	267.1	267.1	265.2
20°	261.6	259.8	263.4	263.4	263.4
22.5°	258.0	256.2	259.8	259.8	259.8
25°	254.3	250.7	256.2	256.2	256.2
27.5°	247.1	247.1	250.7	252.5	250.7
30°	241.6	239.8	245.3	247.1	245.3
32.5°	236.2	234.4	239.8	241.6	239.8
35°	228.9	228.9	232.5	234.4	234.4
37.5°	221.6	221.6	225.3	227.1	234.4
40°	214.4	214.4	218.0	228.9	236.2
42.5°	205.3	205.3	210.7	227.1	236.2
45°	196.2	198.0	201.7	227.1	236.2
47.5°	187.1	188.9	198.0	225.3	232.5
50°	176.2	179.9	194.4	219.8	225.3
52.5°	167.1	169.0	188.9	210.7	210.7
55°	156.2	158.1	185.3	196.2	196.2
57.5°	145.3	147.2	176.2	179.9	179.9
60°	134.4	136.3	165.3	165.3	165.3
62.5°	121.7	125.4	149.0	150.8	150.8
65°	110.8	116.3	132.6	134.4	134.4
67.5°	98.1	107.2	118.1	119.9	119.9
70°	87.2	98.1	101.7	103.6	103.6
72.5°	74.5	85.4	87.2	89.0	89.0
75°	61.8	72.7	72.7	74.5	74.5
77.5°	49.1	58.1	60.0	60.0	60.0
80°	38.2	43.6	47.2	45.4	45.4
82.5°	27.3	34.5	34.5	34.5	32.7
85°	18.2	29.1	25.4	23.6	21.8
87.5°	10.9	25.4	14.5	12.7	12.7
90°	3.6	10.9	9.1	1.8	1.8
92.5°	7.3	18.2	9.1	7.3	5.5
95°	14.5	72.7	87.2	18.2	18.2
97.5°	27.3	121.7	187.1	221.6	238.0
100°	41.8	181.7	250.7	307.0	327.0
102.5°	60.0	219.8	308.8	379.7	408.8
105°	79.9	258.0	390.6	450.6	486.9
107.5°	99.9	287.0	454.2	521.4	546.8
110°	123.5	310.7	494.2	610.4	617.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.3	328.8	516.0	654.0	694.0
115°	165.3	348.8	548.7	679.5	721.2
117.5°	188.9	363.3	568.6	694.0	739.4
120°	210.7	376.1	583.2	712.2	744.9
122.5°	230.7	390.6	594.1	726.7	763.0
125°	248.9	403.3	601.3	732.1	768.5
127.5°	267.1	414.2	603.2	734.0	772.1
130°	287.0	425.1	606.8	732.1	770.3
132.5°	307.0	436.0	605.0	726.7	761.2
135°	321.6	443.3	601.3	719.4	750.3
137.5°	336.1	448.7	597.7	708.5	737.6
140°	348.8	452.4	592.3	695.8	723.1
142.5°	363.3	454.2	588.6	683.1	706.7
145°	376.1	454.2	583.2	668.6	690.4
147.5°	388.8	452.4	575.9	654.0	672.2
150°	397.9	448.7	568.6	639.5	654.0
152.5°	405.1	445.1	559.6	623.1	637.7
155°	414.2	443.3	548.7	608.6	619.5
157.5°	421.5	443.3	535.9	592.3	603.2
160°	428.8	443.3	521.4	575.9	585.0
162.5°	437.8	443.3	501.4	552.3	561.4
165°	446.9	445.1	486.9	528.7	535.9
167.5°	452.4	445.1	472.4	499.6	506.9
170°	456.0	448.7	459.6	479.6	481.4
172.5°	457.8	452.4	450.6	459.6	459.6
175°	457.8	452.4	450.6	450.6	446.9
177.5°	457.8	454.2	454.2	452.4	446.9
180°	454.2	454.2	454.2	454.2	454.2

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