

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: P253454

Luminaire Tested: **J3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253454
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-40L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4045.2 lumens
Efficiency: N/A
Efficacy: 141.4 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

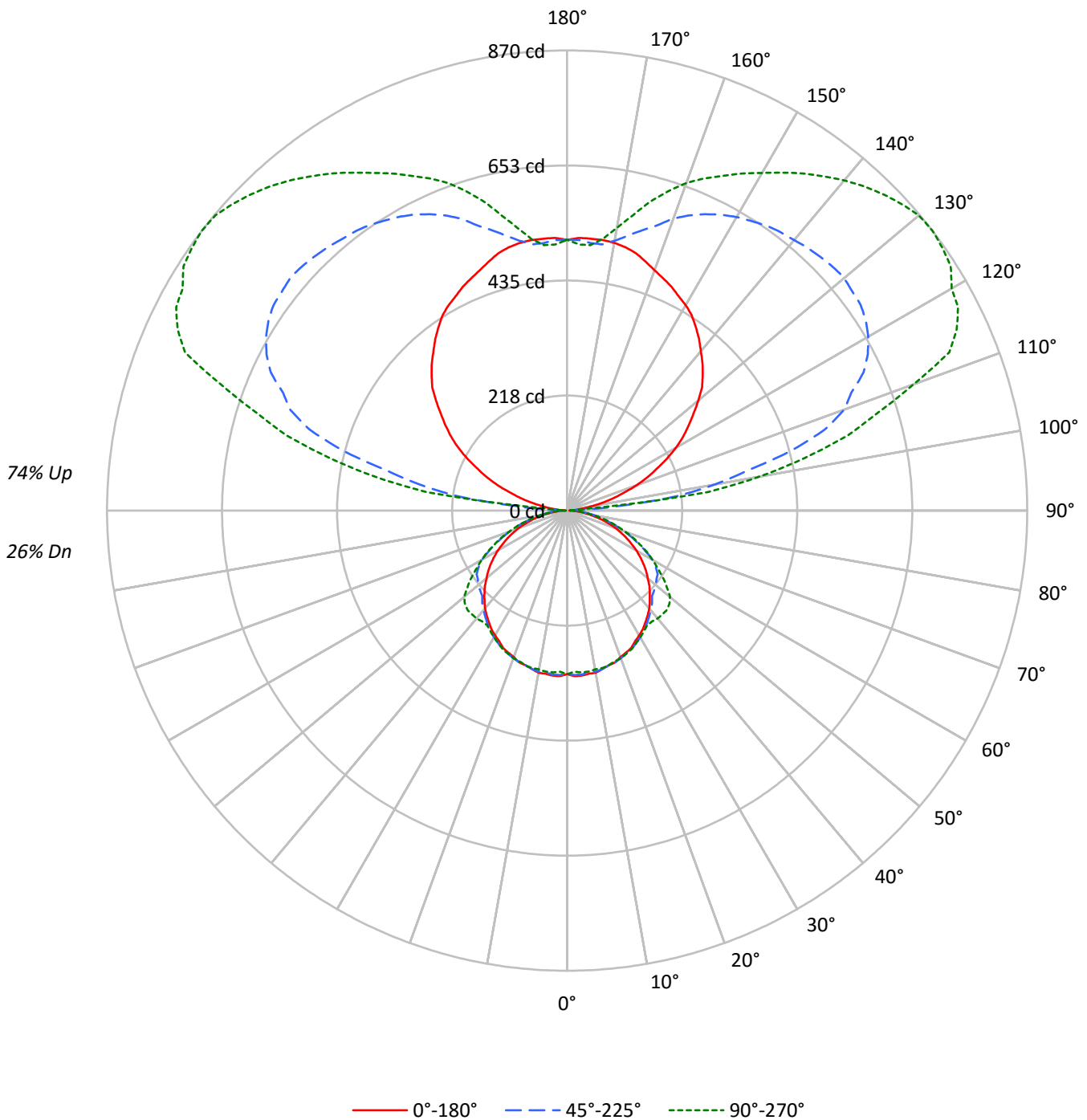
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2495	2495	2495
5°	2538	2522	2489
10°	2551	2534	2500
15°	2532	2532	2532
20°	2533	2551	2551
25°	2553	2572	2572
30°	2538	2577	2577
35°	2543	2583	2603
40°	2546	2589	2805
45°	2524	2595	3039
50°	2494	2752	3189
55°	2479	2939	3112
60°	2446	3008	3008
65°	2386	2856	2894
70°	2320	2705	2755
75°	2171	2555	2617
80°	1999	2473	2380
85°	1899	2658	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	0.7
10°-20°	85.6	2.1
20°-30°	132.2	3.3
30°-40°	164.0	4.1
40°-50°	183.5	4.5
50°-60°	179.3	4.4
60°-70°	141.5	3.5
70°-80°	85.6	2.1
80°-90°	30.5	0.8
90°-100°	105.1	2.6
100°-110°	406.3	10.0
110°-120°	558.4	13.8
120°-130°	564.9	14.0
130°-140°	500.7	12.4
140°-150°	396.0	9.8
150°-160°	276.5	6.8
160°-170°	156.5	3.9
170°-180°	49.1	1.2
0°-30°	247.3	6.1
0°-40°	411.3	10.2
0°-60°	774.2	19.1
0°-90°	1031.8	25.5
90°-120°	1069.8	26.4
90°-150°	2531.5	62.6
90°-180°	3013.0	74.5
0°-180°	4045.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	309	309	309	309	309	
5°	313	309	311	309	307	30
15°	303	301	303	303	303	86
25°	287	282	289	289	289	132
35°	258	258	262	264	264	162
45°	221	223	227	256	266	171
55°	176	178	209	221	221	157
65°	125	131	150	152	152	123
75°	70	82	82	84	84	74
85°	20	33	29	27	25	21
90°	4	12	10	2	2	4
95°	16	82	98	20	20	20
105°	90	291	440	508	549	96
115°	186	393	618	766	813	186
125°	280	454	678	825	866	251
135°	362	500	678	811	846	279
145°	424	512	657	753	778	265
155°	467	500	618	686	698	215
165°	504	502	549	596	604	142
175°	516	510	508	508	504	49
180°	512	512	512	512	512	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	309.1	309.1	309.1	309.1	309.1
2.5°	313.2	309.1	311.2	309.1	305.0
5°	313.2	309.1	311.2	309.1	307.1
7.5°	311.2	309.1	309.1	307.1	307.1
10°	311.2	307.1	309.1	307.1	305.0
12.5°	307.1	305.0	307.1	305.0	305.0
15°	303.0	301.0	303.0	303.0	303.0
17.5°	301.0	296.9	301.0	301.0	298.9
20°	294.8	292.8	296.9	296.9	296.9
22.5°	290.7	288.7	292.8	292.8	292.8
25°	286.6	282.5	288.7	288.7	288.7
27.5°	278.4	278.4	282.5	284.6	282.5
30°	272.3	270.2	276.4	278.4	276.4
32.5°	266.2	264.1	270.2	272.3	270.2
35°	258.0	258.0	262.1	264.1	264.1
37.5°	249.8	249.8	253.9	255.9	264.1
40°	241.6	241.6	245.7	258.0	266.2
42.5°	231.3	231.3	237.5	255.9	266.2
45°	221.1	223.2	227.3	255.9	266.2
47.5°	210.9	212.9	223.2	253.9	262.1
50°	198.6	202.7	219.1	247.7	253.9
52.5°	188.4	190.4	212.9	237.5	237.5
55°	176.1	178.1	208.8	221.1	221.1
57.5°	163.8	165.8	198.6	202.7	202.7
60°	151.5	153.5	186.3	186.3	186.3
62.5°	137.2	141.3	167.9	169.9	169.9
65°	124.9	131.0	149.5	151.5	151.5
67.5°	110.6	120.8	133.1	135.1	135.1
70°	98.3	110.6	114.6	116.7	116.7
72.5°	83.9	96.2	98.3	100.3	100.3
75°	69.6	81.9	81.9	83.9	83.9
77.5°	55.3	65.5	67.6	67.6	67.6
80°	43.0	49.1	53.2	51.2	51.2
82.5°	30.7	38.9	38.9	38.9	36.9
85°	20.5	32.8	28.7	26.6	24.6
87.5°	12.3	28.7	16.4	14.3	14.3
90°	4.1	12.3	10.2	2.0	2.0
92.5°	8.2	20.5	10.2	8.2	6.1
95°	16.4	81.9	98.3	20.5	20.5
97.5°	30.7	137.2	210.9	249.8	268.2
100°	47.1	204.7	282.5	346.0	368.5
102.5°	67.6	247.7	348.0	427.9	460.6
105°	90.1	290.7	440.2	507.7	548.7
107.5°	112.6	323.5	511.8	587.6	616.2
110°	139.2	350.1	556.9	687.9	696.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.8	370.6	581.4	737.0	782.1
115°	186.3	393.1	618.3	765.7	812.8
117.5°	212.9	409.5	640.8	782.1	833.3
120°	237.5	423.8	657.2	802.5	839.4
122.5°	260.0	440.2	669.5	818.9	859.9
125°	280.5	454.5	677.7	825.1	866.0
127.5°	301.0	466.8	679.7	827.1	870.1
130°	323.5	479.1	683.8	825.1	868.1
132.5°	346.0	491.4	681.8	818.9	857.8
135°	362.4	499.5	677.7	810.7	845.5
137.5°	378.8	505.7	673.6	798.5	831.2
140°	393.1	509.8	667.4	784.1	814.8
142.5°	409.5	511.8	663.3	769.8	796.4
145°	423.8	511.8	657.2	753.4	778.0
147.5°	438.1	509.8	649.0	737.0	757.5
150°	448.4	505.7	640.8	720.7	737.0
152.5°	456.6	501.6	630.6	702.2	718.6
155°	466.8	499.5	618.3	685.9	698.1
157.5°	475.0	499.5	604.0	667.4	679.7
160°	483.2	499.5	587.6	649.0	659.2
162.5°	493.4	499.5	565.1	622.4	632.6
165°	503.6	501.6	548.7	595.8	604.0
167.5°	509.8	501.6	532.3	563.0	571.2
170°	513.9	505.7	518.0	540.5	542.5
172.5°	515.9	509.8	507.7	518.0	518.0
175°	515.9	509.8	507.7	507.7	503.6
177.5°	515.9	511.8	511.8	509.8	503.6
180°	511.8	511.8	511.8	511.8	511.8

(END OF REPORT)