

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: P253508

Luminaire Tested: **J3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED 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: 3846.1 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

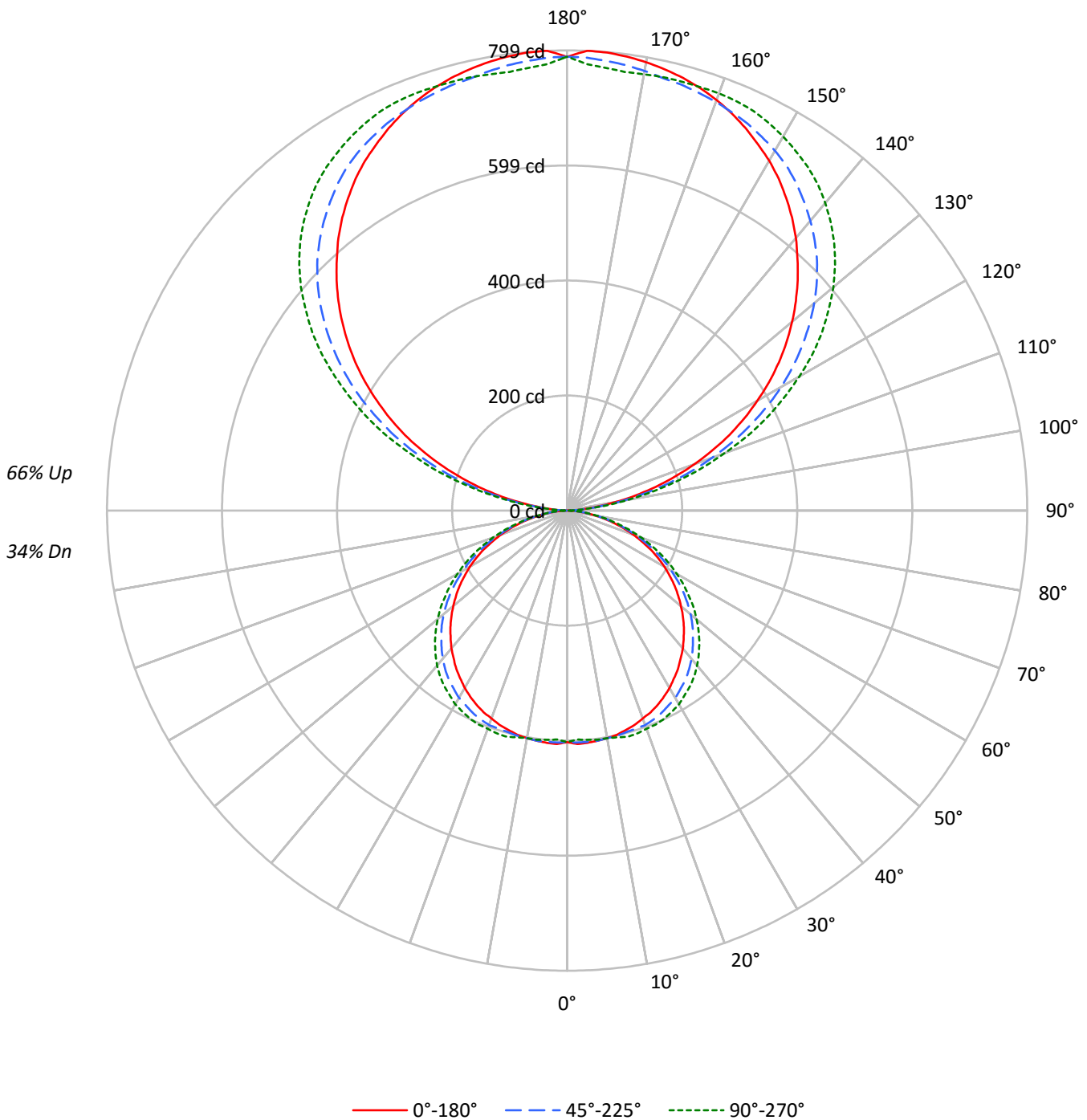
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3246	3246	3246
5°	3280	3267	3237
10°	3289	3289	3289
15°	3295	3326	3398
20°	3299	3404	3463
25°	3314	3453	3552
30°	3315	3499	3622
35°	3308	3529	3667
40°	3293	3538	3701
45°	3272	3528	3705
50°	3240	3513	3686
55°	3206	3462	3631
60°	3147	3373	3554
65°	3049	3245	3431
70°	2873	3057	3217
75°	2639	2801	2935
80°	2292	2445	2534
85°	1834	1908	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	1.0
10°-20°	112.8	2.9
20°-30°	177.7	4.6
30°-40°	222.0	5.8
40°-50°	236.7	6.2
50°-60°	218.3	5.7
60°-70°	167.6	4.4
70°-80°	95.0	2.5
80°-90°	25.0	0.7
90°-100°	40.3	1.0
100°-110°	189.7	4.9
110°-120°	343.9	8.9
120°-130°	441.8	11.5
130°-140°	470.0	12.2
140°-150°	432.4	11.2
150°-160°	342.4	8.9
160°-170°	217.4	5.7
170°-180°	74.6	1.9
0°-30°	328.9	8.6
0°-40°	551.0	14.3
0°-60°	1005.9	26.2
0°-90°	1293.5	33.6
90°-120°	574.0	14.9
90°-150°	1918.1	49.9
90°-180°	2553.0	66.4
0°-180°	3846.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	402	402	402	402	402	
5°	405	401	403	402	400	39
15°	394	393	398	405	407	111
25°	372	373	388	395	399	171
35°	336	342	358	367	372	210
45°	287	294	309	318	324	221
55°	228	235	246	254	258	203
65°	160	163	170	176	180	157
75°	85	86	90	93	94	90
85°	20	21	21	22	22	22
90°	1	1	1	0	0	3
95°	27	28	30	32	34	35
105°	159	166	181	192	198	168
115°	311	324	351	373	383	306
125°	449	463	498	526	540	401
135°	566	575	614	640	656	437
145°	663	660	694	715	728	415
155°	733	722	741	757	766	338
165°	778	766	766	768	771	220
175°	798	789	784	778	772	76
180°	788	788	788	788	788	



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CATALOG NUMBER: J3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	402.1	402.1	402.1	402.1	402.1
2.5°	405.7	402.1	403.1	403.1	397.9
5°	404.8	401.2	403.1	402.1	399.5
7.5°	403.1	400.5	403.1	403.1	401.2
10°	401.2	398.8	401.2	402.1	401.2
12.5°	398.8	396.2	400.5	402.1	403.1
15°	394.3	392.6	397.9	404.8	406.6
17.5°	390.2	389.3	397.1	404.8	405.7
20°	384.0	384.0	396.2	402.1	403.1
22.5°	379.0	379.0	392.6	398.8	402.1
25°	372.1	372.8	387.6	395.4	398.8
27.5°	364.2	366.8	381.4	390.2	393.6
30°	355.6	359.9	375.4	384.0	388.5
32.5°	345.4	351.2	366.8	375.4	379.7
35°	335.7	341.8	358.1	366.8	372.1
37.5°	323.7	331.4	347.8	356.4	362.5
40°	312.5	320.3	335.7	345.4	351.2
42.5°	299.5	308.1	322.8	332.3	338.3
45°	286.6	294.2	309.0	318.5	324.5
47.5°	272.8	280.6	295.3	303.9	309.7
50°	258.0	266.6	279.7	288.3	293.5
52.5°	243.3	251.1	263.2	272.0	277.1
55°	227.8	234.7	246.0	253.9	258.0
57.5°	211.4	218.3	227.8	235.6	239.9
60°	194.9	200.2	208.9	216.6	220.1
62.5°	177.7	182.2	189.9	196.0	200.2
65°	159.6	163.2	169.9	176.1	179.6
67.5°	140.8	144.1	150.1	155.3	157.9
70°	121.7	125.1	129.5	133.7	136.3
72.5°	103.5	105.3	109.6	113.1	114.8
75°	84.6	86.3	89.8	93.2	94.1
77.5°	67.4	68.2	70.9	72.6	73.4
80°	49.3	51.0	52.6	53.4	54.5
82.5°	33.6	34.5	35.3	36.2	37.0
85°	19.8	20.6	20.6	21.6	21.6
87.5°	8.6	9.5	9.5	9.5	9.5
90°	0.9	0.9	0.9	0.0	0.0
92.5°	8.6	8.6	9.5	10.3	11.2
95°	26.7	27.6	30.2	31.9	33.6
97.5°	53.4	55.3	60.3	64.8	66.5
100°	86.3	89.8	97.6	103.5	106.2
102.5°	121.7	126.8	138.1	146.7	151.0
105°	158.9	165.8	181.3	192.5	197.7
107.5°	196.8	205.5	225.3	238.2	245.1
110°	234.7	246.0	267.5	284.7	289.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.8	284.7	310.7	329.7	339.2
115°	310.7	323.7	351.2	372.8	383.3
117.5°	347.0	360.7	390.9	415.2	424.6
120°	381.4	396.2	429.0	454.0	465.2
122.5°	416.0	429.9	464.3	491.0	505.0
125°	448.8	462.6	498.1	525.6	540.3
127.5°	480.0	492.7	530.0	558.4	572.2
130°	510.1	522.2	560.1	587.9	603.4
132.5°	538.6	549.8	587.9	614.6	631.0
135°	566.2	574.8	613.7	640.4	656.0
137.5°	592.0	598.2	636.2	662.9	677.7
140°	618.0	619.8	656.8	681.8	697.3
142.5°	641.3	640.4	675.8	699.9	714.7
145°	662.9	660.3	693.9	715.4	728.5
147.5°	683.5	677.7	709.4	727.7	739.7
150°	701.6	693.9	721.6	739.7	750.0
152.5°	717.1	708.5	731.8	748.3	758.6
155°	732.8	722.5	741.4	756.9	765.6
157.5°	746.6	733.5	748.3	762.1	769.1
160°	758.6	745.8	755.2	765.6	770.8
162.5°	769.1	756.1	760.4	766.4	770.8
165°	777.7	765.6	765.6	768.1	770.8
167.5°	784.5	774.2	769.1	769.9	770.8
170°	790.6	780.2	775.0	769.9	769.1
172.5°	794.9	784.5	780.2	773.3	768.1
175°	798.3	788.9	783.6	777.7	771.6
177.5°	799.2	791.4	787.1	781.1	775.9
180°	788.0	788.0	788.0	788.0	788.0

(END OF REPORT)