

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: P253502

Luminaire Tested: **J3-FL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253502
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 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3636.4 lumens
Efficiency: N/A
Efficacy: 130.8 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

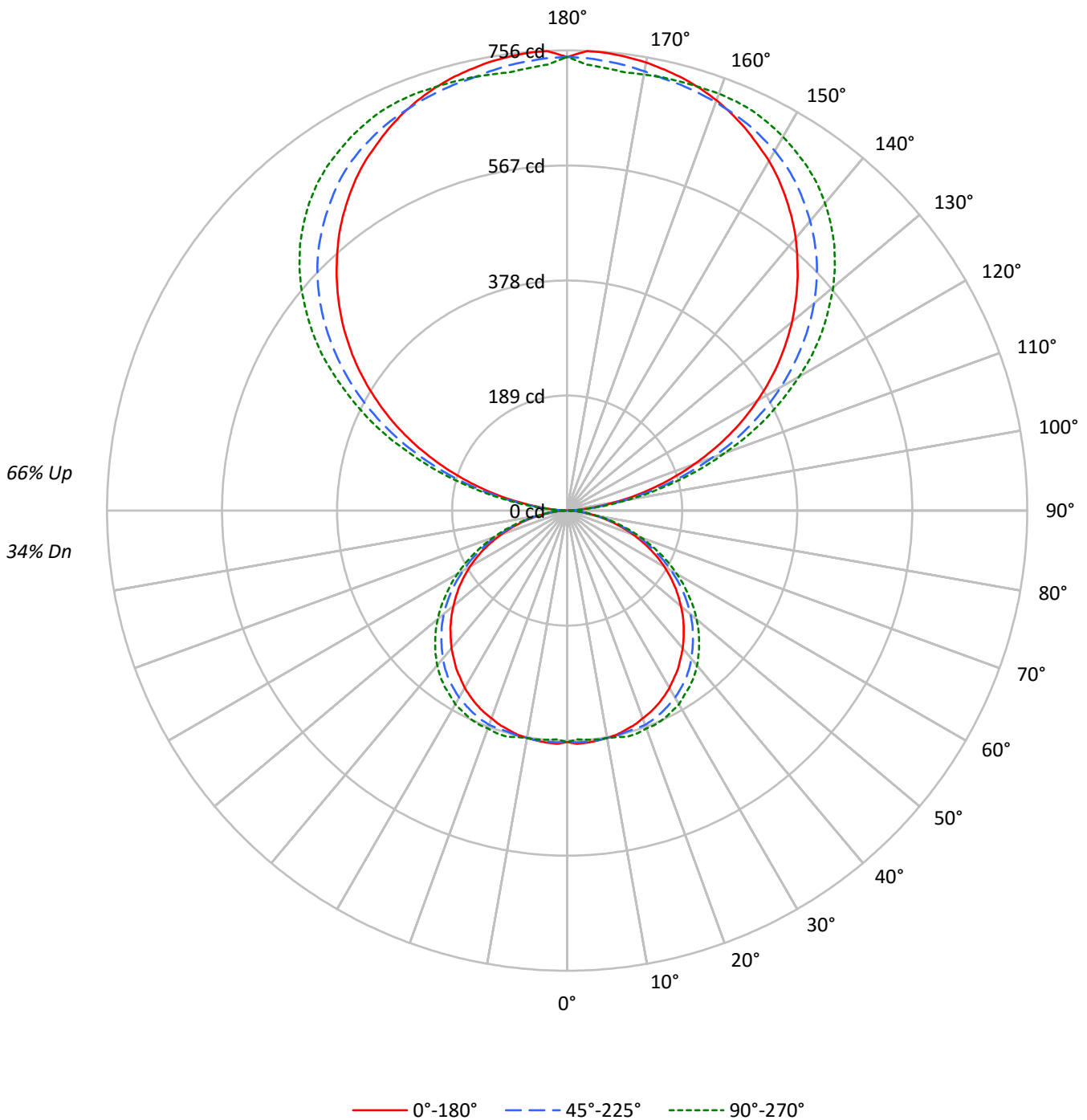
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3069	3069	3069
5°	3101	3088	3062
10°	3110	3110	3110
15°	3116	3144	3213
20°	3119	3218	3274
25°	3134	3264	3358
30°	3135	3309	3424
35°	3128	3337	3467
40°	3114	3345	3499
45°	3094	3335	3503
50°	3064	3321	3485
55°	3032	3274	3434
60°	2976	3189	3360
65°	2883	3070	3244
70°	2717	2891	3043
75°	2495	2648	2776
80°	2166	2315	2394
85°	1732	1797	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.0
10°-20°	106.7	2.9
20°-30°	168.0	4.6
30°-40°	210.0	5.8
40°-50°	223.8	6.2
50°-60°	206.4	5.7
60°-70°	158.5	4.4
70°-80°	89.8	2.5
80°-90°	23.7	0.7
90°-100°	38.1	1.0
100°-110°	179.4	4.9
110°-120°	325.2	8.9
120°-130°	417.7	11.5
130°-140°	444.3	12.2
140°-150°	408.9	11.2
150°-160°	323.8	8.9
160°-170°	205.5	5.7
170°-180°	70.5	1.9
0°-30°	311.0	8.6
0°-40°	520.9	14.3
0°-60°	951.1	26.2
0°-90°	1223.1	33.6
90°-120°	542.7	14.9
90°-150°	1813.6	49.9
90°-180°	2413.0	66.4
0°-180°	3636.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	380	380	380	380	380	
5°	383	379	381	380	378	36
15°	373	371	376	383	384	105
25°	352	352	366	374	377	162
35°	317	323	339	347	352	198
45°	271	278	292	301	307	209
55°	215	222	233	240	244	192
65°	151	154	161	166	170	149
75°	80	82	85	88	89	85
85°	19	19	19	20	20	21
90°	1	1	1	0	0	2
95°	25	26	29	30	32	33
105°	150	157	171	182	187	159
115°	294	306	332	352	362	290
125°	424	437	471	497	511	379
135°	535	544	580	606	620	413
145°	627	624	656	676	689	392
155°	693	683	701	716	724	319
165°	735	724	724	726	729	208
175°	755	746	741	735	730	72
180°	745	745	745	745	745	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	380.2	380.2	380.2	380.2	380.2
2.5°	383.6	380.2	381.1	381.1	376.2
5°	382.7	379.4	381.1	380.2	377.8
7.5°	381.1	378.6	381.1	381.1	379.4
10°	379.4	377.0	379.4	380.2	379.4
12.5°	377.0	374.6	378.6	380.2	381.1
15°	372.8	371.2	376.2	382.7	384.4
17.5°	368.9	368.0	375.4	382.7	383.6
20°	363.1	363.1	374.6	380.2	381.1
22.5°	358.3	358.3	371.2	377.0	380.2
25°	351.8	352.5	366.4	373.8	377.0
27.5°	344.4	346.9	360.6	368.9	372.1
30°	336.3	340.3	355.0	363.1	367.3
32.5°	326.5	332.0	346.9	355.0	359.0
35°	317.4	323.2	338.6	346.9	351.8
37.5°	306.1	313.3	328.9	337.0	342.8
40°	295.5	302.9	317.4	326.5	332.0
42.5°	283.1	291.3	305.2	314.2	319.9
45°	271.0	278.2	292.1	301.1	306.8
47.5°	257.9	265.3	279.2	287.4	292.9
50°	244.0	252.1	264.4	272.5	277.5
52.5°	230.0	237.4	248.9	257.2	262.0
55°	215.4	221.9	232.6	240.0	244.0
57.5°	199.8	206.4	215.4	222.8	226.8
60°	184.3	189.2	197.5	204.8	208.1
62.5°	168.1	172.3	179.5	185.3	189.2
65°	150.9	154.3	160.7	166.5	169.8
67.5°	133.1	136.3	141.9	146.9	149.3
70°	115.1	118.3	122.5	126.4	128.9
72.5°	97.8	99.6	103.6	107.0	108.6
75°	80.0	81.6	84.9	88.1	89.0
77.5°	63.7	64.4	67.0	68.6	69.4
80°	46.6	48.2	49.8	50.5	51.5
82.5°	31.8	32.7	33.4	34.2	35.0
85°	18.7	19.4	19.4	20.5	20.5
87.5°	8.1	9.0	9.0	9.0	9.0
90°	0.9	0.9	0.9	0.0	0.0
92.5°	8.1	8.1	9.0	9.7	10.6
95°	25.3	26.1	28.6	30.2	31.8
97.5°	50.5	52.2	57.0	61.2	62.8
100°	81.6	84.9	92.3	97.8	100.4
102.5°	115.1	119.9	130.6	138.7	142.8
105°	150.2	156.7	171.4	182.0	186.9
107.5°	186.1	194.3	213.0	225.2	231.8
110°	221.9	232.6	253.0	269.2	274.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	257.9	269.2	293.7	311.7	320.7
115°	293.7	306.1	332.0	352.5	362.4
117.5°	328.1	341.0	369.6	392.6	401.4
120°	360.6	374.6	405.6	429.3	439.9
122.5°	393.3	406.5	439.0	464.3	477.5
125°	424.4	437.4	470.9	496.9	510.8
127.5°	453.8	465.9	501.1	528.0	541.0
130°	482.3	493.7	529.6	555.8	570.5
132.5°	509.2	519.8	555.8	581.1	596.6
135°	535.4	543.5	580.2	605.5	620.3
137.5°	559.8	565.6	601.5	626.8	640.7
140°	584.3	586.0	621.0	644.7	659.3
142.5°	606.3	605.5	639.0	661.8	675.7
145°	626.8	624.3	656.1	676.4	688.8
147.5°	646.2	640.7	670.8	688.0	699.4
150°	663.4	656.1	682.2	699.4	709.1
152.5°	678.0	669.9	692.0	707.5	717.2
155°	692.8	683.1	701.0	715.6	723.9
157.5°	705.9	693.6	707.5	720.6	727.2
160°	717.2	705.2	714.0	723.9	728.8
162.5°	727.2	714.9	719.0	724.6	728.8
165°	735.4	723.9	723.9	726.2	728.8
167.5°	741.7	732.0	727.2	728.0	728.8
170°	747.5	737.7	732.7	728.0	727.2
172.5°	751.6	741.7	737.7	731.1	726.2
175°	754.8	746.0	740.9	735.4	729.6
177.5°	755.7	748.3	744.2	738.5	733.6
180°	745.1	745.1	745.1	745.1	745.1

(END OF REPORT)