

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: P253514

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253514
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.1 lumens
Efficiency: N/A
Efficacy: 141.5 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

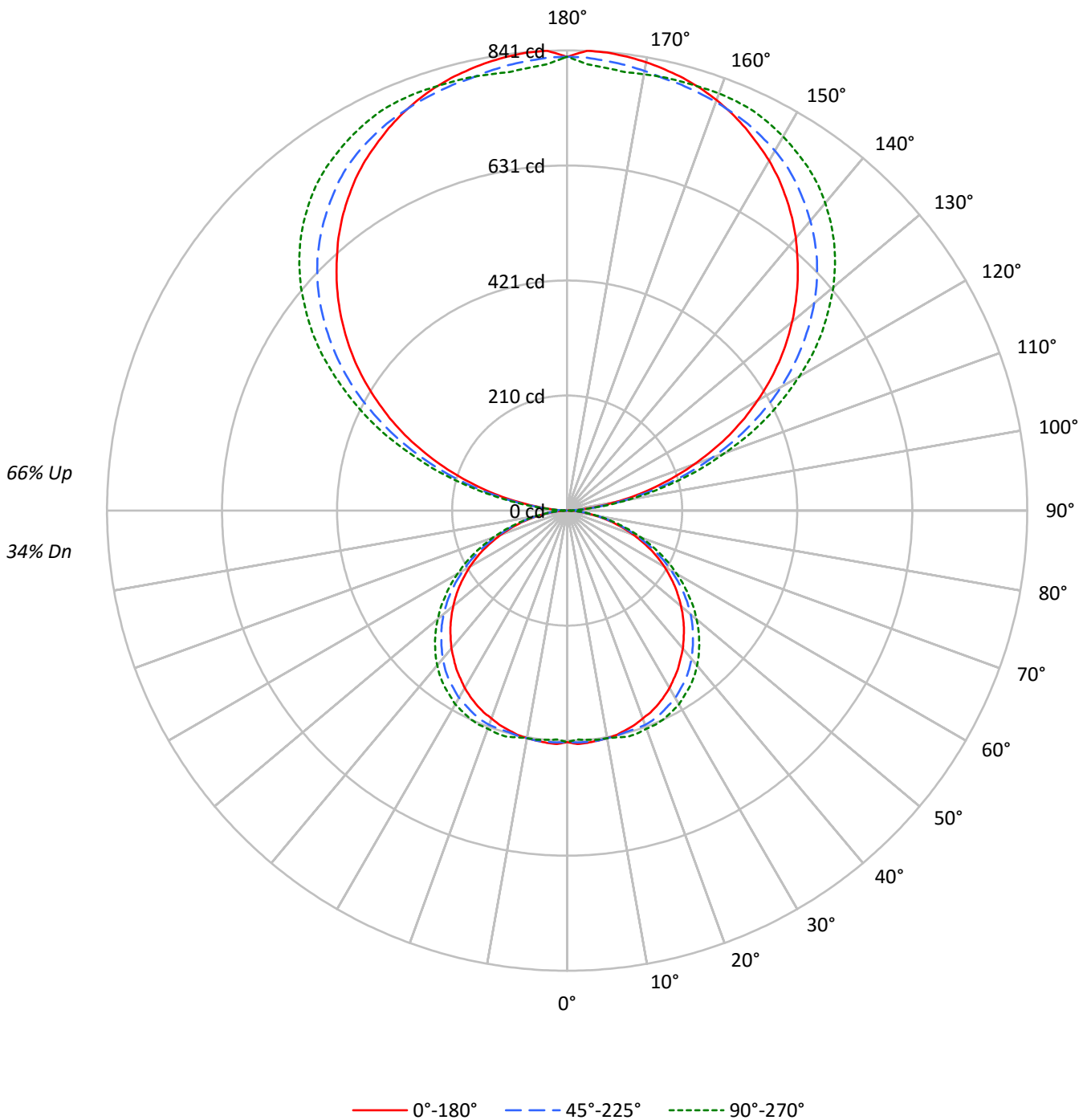
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3417	3417	3417
5°	3452	3438	3408
10°	3462	3462	3462
15°	3468	3499	3577
20°	3473	3582	3644
25°	3488	3633	3738
30°	3489	3684	3812
35°	3482	3714	3859
40°	3466	3723	3895
45°	3443	3713	3899
50°	3411	3697	3880
55°	3374	3645	3823
60°	3313	3550	3741
65°	3209	3415	3610
70°	3024	3220	3387
75°	2776	2948	3088
80°	2413	2576	2669
85°	1927	2001	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	1.0
10°-20°	118.8	2.9
20°-30°	187.1	4.6
30°-40°	233.7	5.8
40°-50°	249.1	6.2
50°-60°	229.7	5.7
60°-70°	176.4	4.4
70°-80°	100.0	2.5
80°-90°	26.3	0.7
90°-100°	42.4	1.0
100°-110°	199.7	4.9
110°-120°	362.0	8.9
120°-130°	465.0	11.5
130°-140°	494.7	12.2
140°-150°	455.1	11.2
150°-160°	360.4	8.9
160°-170°	228.8	5.7
170°-180°	78.5	1.9
0°-30°	346.2	8.6
0°-40°	579.9	14.3
0°-60°	1058.8	26.2
0°-90°	1361.5	33.6
90°-120°	604.1	14.9
90°-150°	2018.9	49.9
90°-180°	2687.0	66.4
0°-180°	4048.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	426	422	424	423	420	41
15°	415	413	419	426	428	117
25°	392	392	408	416	420	180
35°	353	360	377	386	392	221
45°	302	310	325	335	342	233
55°	240	247	259	267	272	214
65°	168	172	179	185	189	166
75°	89	91	94	98	99	95
85°	21	22	22	23	23	24
90°	1	1	1	0	0	3
95°	28	29	32	34	35	36
105°	167	174	191	203	208	177
115°	327	341	370	392	403	323
125°	472	487	524	553	569	422
135°	596	605	646	674	690	460
145°	698	695	730	753	767	437
155°	771	760	780	797	806	356
165°	819	806	806	808	811	231
175°	840	830	825	819	812	80
180°	829	829	829	829	829	



TEST NUMBER: P253514

CATALOG NUMBER: J3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.3	423.3	423.3	423.3	423.3
2.5°	427.0	423.3	424.2	424.2	418.7
5°	426.0	422.3	424.2	423.3	420.5
7.5°	424.2	421.5	424.2	424.2	422.3
10°	422.3	419.7	422.3	423.3	422.3
12.5°	419.7	417.0	421.5	423.3	424.2
15°	415.0	413.3	418.7	426.0	428.0
17.5°	410.7	409.7	417.9	426.0	427.0
20°	404.2	404.2	417.0	423.3	424.2
22.5°	398.9	398.9	413.3	419.7	423.3
25°	391.6	392.4	407.9	416.2	419.7
27.5°	383.4	386.1	401.5	410.7	414.2
30°	374.3	378.8	395.2	404.2	408.9
32.5°	363.5	369.6	386.1	395.2	399.7
35°	353.3	359.8	376.9	386.1	391.6
37.5°	340.7	348.8	366.1	375.1	381.6
40°	328.9	337.2	353.3	363.5	369.6
42.5°	315.2	324.2	339.7	349.8	356.1
45°	301.6	309.7	325.2	335.2	341.5
47.5°	287.1	295.3	310.8	319.9	326.0
50°	271.6	280.6	294.4	303.4	308.9
52.5°	256.1	264.3	277.1	286.3	291.6
55°	239.7	247.0	259.0	267.2	271.6
57.5°	222.5	229.7	239.7	248.0	252.5
60°	205.2	210.7	219.9	228.0	231.7
62.5°	187.1	191.8	199.8	206.3	210.7
65°	168.0	171.7	178.8	185.3	189.0
67.5°	148.1	151.7	158.0	163.5	166.2
70°	128.1	131.7	136.4	140.7	143.5
72.5°	108.9	110.8	115.3	119.1	120.8
75°	89.0	90.8	94.5	98.1	99.0
77.5°	70.9	71.7	74.6	76.4	77.2
80°	51.9	53.6	55.4	56.2	57.4
82.5°	35.4	36.3	37.2	38.1	38.9
85°	20.8	21.6	21.6	22.8	22.8
87.5°	9.0	10.0	10.0	10.0	10.0
90°	1.0	1.0	1.0	0.0	0.0
92.5°	9.0	9.0	10.0	10.8	11.8
95°	28.1	29.1	31.8	33.6	35.4
97.5°	56.2	58.2	63.5	68.2	70.0
100°	90.8	94.5	102.7	108.9	111.8
102.5°	128.1	133.4	145.4	154.4	159.0
105°	167.2	174.5	190.8	202.6	208.1
107.5°	207.1	216.3	237.2	250.7	258.0
110°	247.0	259.0	281.6	299.7	305.2



TEST NUMBER: P253514

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.1	299.7	327.0	347.0	357.0
115°	327.0	340.7	369.6	392.4	403.4
117.5°	365.3	379.7	411.5	437.0	446.9
120°	401.5	417.0	451.5	477.9	489.7
122.5°	437.8	452.5	488.7	516.8	531.5
125°	472.4	486.9	524.2	553.2	568.7
127.5°	505.2	518.6	557.8	587.7	602.3
130°	536.8	549.6	589.5	618.8	635.1
132.5°	566.9	578.7	618.8	646.9	664.1
135°	596.0	605.0	645.9	674.0	690.5
137.5°	623.1	629.6	669.6	697.8	713.3
140°	650.4	652.4	691.3	717.6	733.9
142.5°	675.0	674.0	711.3	736.7	752.2
145°	697.8	695.0	730.4	753.0	766.7
147.5°	719.4	713.3	746.7	765.9	778.5
150°	738.5	730.4	759.5	778.5	789.4
152.5°	754.8	745.7	770.3	787.6	798.4
155°	771.3	760.4	780.3	796.6	805.8
157.5°	785.8	772.1	787.6	802.1	809.5
160°	798.4	785.0	794.8	805.8	811.3
162.5°	809.5	795.8	800.3	806.6	811.3
165°	818.6	805.8	805.8	808.4	811.3
167.5°	825.7	814.9	809.5	810.4	811.3
170°	832.2	821.2	815.7	810.4	809.5
172.5°	836.7	825.7	821.2	813.9	808.4
175°	840.2	830.4	824.7	818.6	812.1
177.5°	841.2	833.0	828.5	822.1	816.7
180°	829.4	829.4	829.4	829.4	829.4

(END OF REPORT)