

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: P275107

Luminaire Tested: **J3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275107
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-40L82765-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.6 lumens
Efficiency: N/A
Efficacy: 137.6 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

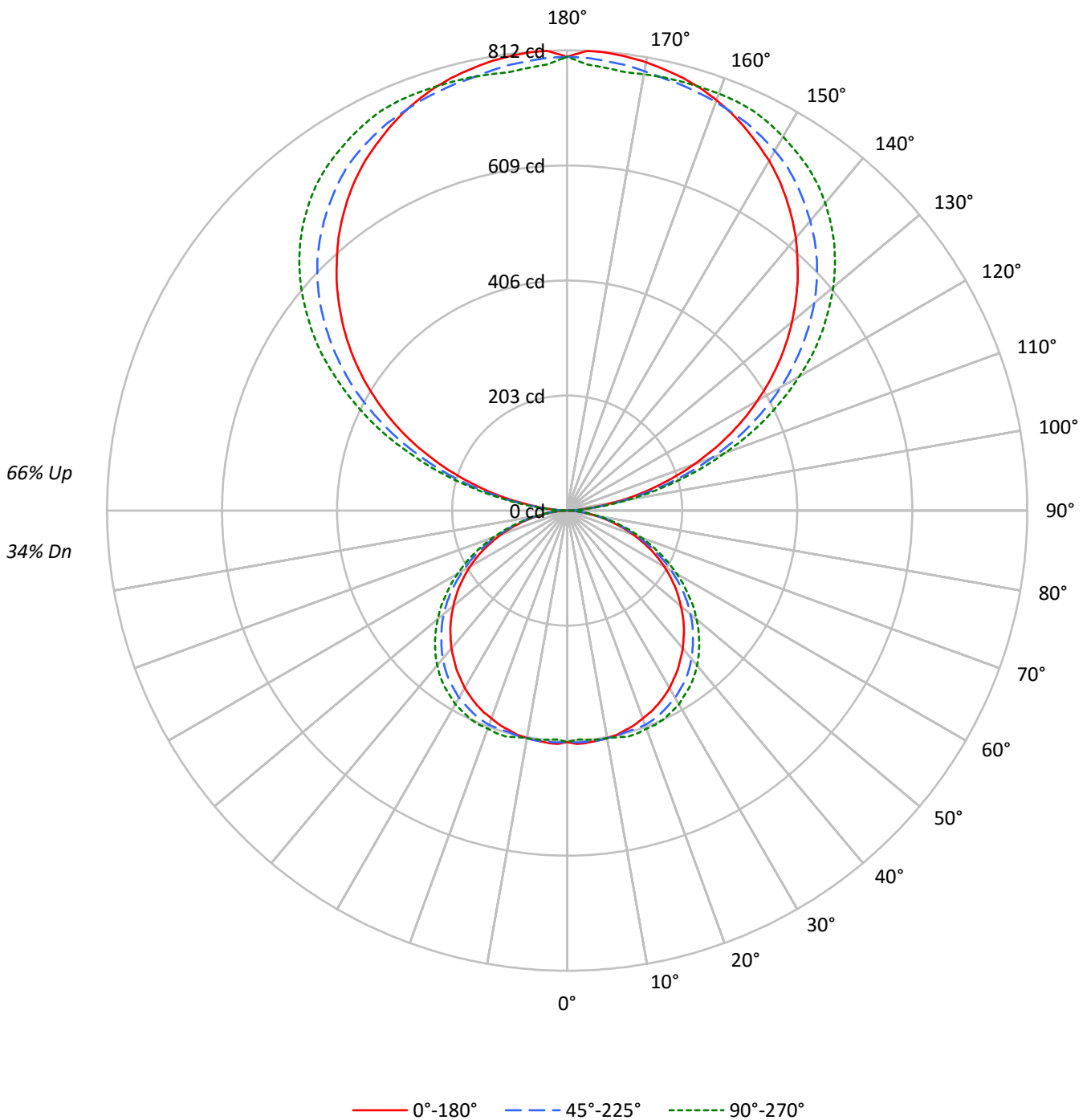
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3299	3299	3299
5°	3332	3318	3289
10°	3341	3341	3341
15°	3348	3378	3453
20°	3352	3458	3518
25°	3367	3508	3609
30°	3368	3555	3679
35°	3362	3585	3725
40°	3346	3595	3760
45°	3325	3584	3764
50°	3292	3568	3745
55°	3257	3519	3689
60°	3199	3426	3610
65°	3098	3297	3486
70°	2920	3106	3269
75°	2679	2845	2982
80°	2329	2487	2576
85°	1862	1936	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	1.0
10°-20°	114.6	2.9
20°-30°	180.6	4.6
30°-40°	225.6	5.8
40°-50°	240.5	6.2
50°-60°	221.7	5.7
60°-70°	170.3	4.4
70°-80°	96.5	2.5
80°-90°	25.4	0.7
90°-100°	41.0	1.0
100°-110°	192.8	4.9
110°-120°	349.4	8.9
120°-130°	448.8	11.5
130°-140°	477.5	12.2
140°-150°	439.3	11.2
150°-160°	347.9	8.9
160°-170°	220.9	5.7
170°-180°	75.8	1.9
0°-30°	334.2	8.6
0°-40°	559.8	14.3
0°-60°	1022.0	26.2
0°-90°	1314.2	33.6
90°-120°	583.2	14.9
90°-150°	1948.8	49.9
90°-180°	2593.0	66.4
0°-180°	3907.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	411	408	410	409	406	39
15°	401	399	404	411	413	113
25°	378	379	394	402	405	174
35°	341	347	364	373	378	213
45°	291	299	314	324	330	224
55°	231	238	250	258	262	207
65°	162	166	173	179	182	160
75°	86	88	91	95	96	91
85°	20	21	21	22	22	23
90°	1	1	1	0	0	3
95°	27	28	31	32	34	35
105°	161	168	184	196	201	171
115°	316	329	357	379	389	311
125°	456	470	506	534	549	407
135°	575	584	624	651	666	444
145°	674	671	705	727	740	421
155°	744	734	753	769	778	343
165°	790	778	778	780	783	223
175°	811	802	796	790	784	77
180°	801	801	801	801	801	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.6	408.6	408.6	408.6	408.6
2.5°	412.2	408.6	409.5	409.5	404.2
5°	411.2	407.6	409.5	408.6	405.9
7.5°	409.5	406.9	409.5	409.5	407.6
10°	407.6	405.2	407.6	408.6	407.6
12.5°	405.2	402.5	406.9	408.6	409.5
15°	400.6	398.9	404.2	411.2	413.1
17.5°	396.4	395.5	403.4	411.2	412.2
20°	390.2	390.2	402.5	408.6	409.5
22.5°	385.0	385.0	398.9	405.2	408.6
25°	378.0	378.8	393.8	401.7	405.2
27.5°	370.1	372.7	387.5	396.4	399.8
30°	361.3	365.7	381.4	390.2	394.7
32.5°	350.9	356.8	372.7	381.4	385.8
35°	341.1	347.3	363.8	372.7	378.0
37.5°	328.9	336.7	353.4	362.1	368.3
40°	317.5	325.5	341.1	350.9	356.8
42.5°	304.3	313.0	328.0	337.6	343.7
45°	291.2	299.0	313.9	323.6	329.7
47.5°	277.1	285.1	300.0	308.8	314.7
50°	262.1	270.9	284.1	292.9	298.2
52.5°	247.2	255.1	267.5	276.3	281.5
55°	231.4	238.4	250.0	257.9	262.1
57.5°	214.7	221.8	231.4	239.4	243.7
60°	198.1	203.4	212.2	220.0	223.6
62.5°	180.6	185.1	192.9	199.1	203.4
65°	162.2	165.8	172.6	178.9	182.5
67.5°	143.0	146.4	152.5	157.8	160.5
70°	123.7	127.1	131.6	135.8	138.5
72.5°	105.1	107.0	111.3	114.9	116.6
75°	85.9	87.6	91.2	94.7	95.6
77.5°	68.5	69.2	72.0	73.8	74.5
80°	50.1	51.8	53.5	54.3	55.4
82.5°	34.2	35.1	35.9	36.8	37.6
85°	20.1	20.9	20.9	22.0	22.0
87.5°	8.7	9.7	9.7	9.7	9.7
90°	0.9	0.9	0.9	0.0	0.0
92.5°	8.7	8.7	9.7	10.4	11.4
95°	27.1	28.1	30.7	32.4	34.2
97.5°	54.3	56.1	61.3	65.8	67.5
100°	87.6	91.2	99.2	105.1	107.9
102.5°	123.7	128.8	140.4	149.1	153.5
105°	161.4	168.4	184.2	195.6	200.9
107.5°	199.9	208.8	228.9	242.0	249.0
110°	238.4	250.0	271.8	289.3	294.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	277.1	289.3	315.6	335.0	344.6
115°	315.6	328.9	356.8	378.8	389.4
117.5°	352.6	366.5	397.2	421.8	431.4
120°	387.5	402.5	435.9	461.3	472.7
122.5°	422.6	436.8	471.7	498.9	513.1
125°	456.0	470.0	506.1	534.0	548.9
127.5°	487.6	500.6	538.5	567.3	581.4
130°	518.2	530.5	569.1	597.3	613.0
132.5°	547.2	558.6	597.3	624.4	641.1
135°	575.3	584.0	623.5	650.6	666.5
137.5°	601.5	607.7	646.4	673.5	688.5
140°	627.8	629.7	667.3	692.7	708.5
142.5°	651.5	650.6	686.6	711.1	726.1
145°	673.5	670.9	705.0	726.9	740.1
147.5°	694.4	688.5	720.8	739.3	751.5
150°	712.8	705.0	733.1	751.5	762.0
152.5°	728.6	719.9	743.6	760.2	770.7
155°	744.5	734.0	753.2	769.0	777.9
157.5°	758.5	745.3	760.2	774.3	781.5
160°	770.7	757.7	767.3	777.9	783.2
162.5°	781.5	768.2	772.6	778.6	783.2
165°	790.2	777.9	777.9	780.4	783.2
167.5°	797.0	786.6	781.5	782.2	783.2
170°	803.3	792.7	787.4	782.2	781.5
172.5°	807.7	797.0	792.7	785.7	780.4
175°	811.1	801.6	796.1	790.2	783.9
177.5°	812.0	804.1	799.7	793.6	788.3
180°	800.6	800.6	800.6	800.6	800.6

(END OF REPORT)