

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: P275023

Luminaire Tested: **J3-CL-50L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275023
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-50L82765-1D-UNV-W2A-W-4 (2700K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4405.4 lumens
Efficiency: N/A
Efficacy: 124.1 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

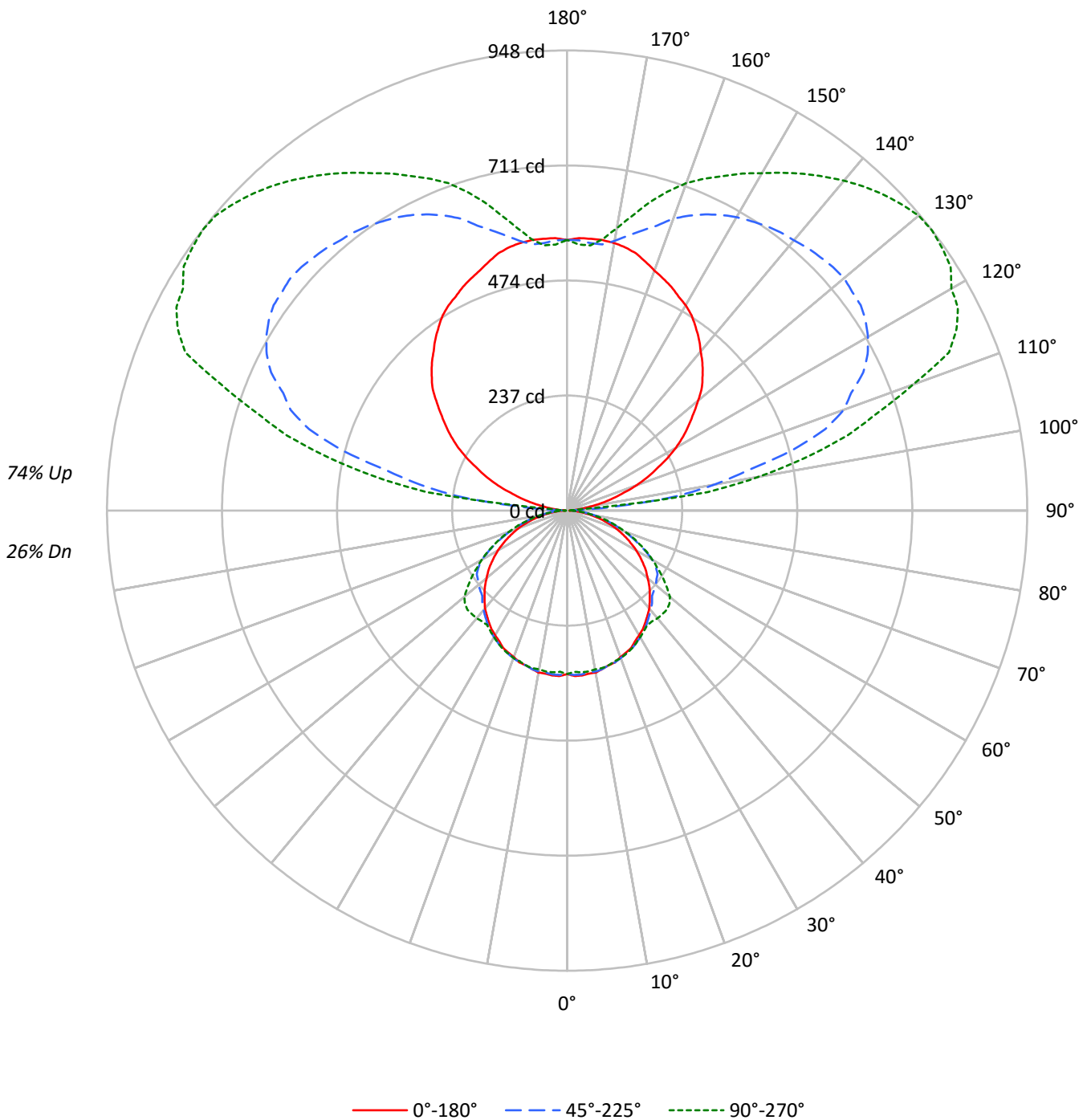
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2718	2718	2718
5°	2764	2746	2710
10°	2778	2760	2723
15°	2758	2758	2758
20°	2759	2777	2777
25°	2780	2801	2801
30°	2764	2806	2806
35°	2768	2813	2834
40°	2773	2820	3054
45°	2749	2826	3309
50°	2717	2997	3473
55°	2698	3201	3389
60°	2664	3276	3276
65°	2598	3110	3152
70°	2526	2948	3000
75°	2364	2782	2851
80°	2176	2696	2590
85°	2066	2890	2482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	0.7
10°-20°	93.2	2.1
20°-30°	144.0	3.3
30°-40°	178.6	4.1
40°-50°	199.9	4.5
50°-60°	195.3	4.4
60°-70°	154.1	3.5
70°-80°	93.2	2.1
80°-90°	33.2	0.8
90°-100°	114.4	2.6
100°-110°	442.5	10.0
110°-120°	608.1	13.8
120°-130°	615.2	14.0
130°-140°	545.3	12.4
140°-150°	431.3	9.8
150°-160°	301.1	6.8
160°-170°	170.4	3.9
170°-180°	53.4	1.2
0°-30°	269.3	6.1
0°-40°	447.9	10.2
0°-60°	843.1	19.1
0°-90°	1123.6	25.5
90°-120°	1165.1	26.4
90°-150°	2756.9	62.6
90°-180°	3282.0	74.5
0°-180°	4405.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	341	337	339	337	334	32
15°	330	328	330	330	330	93
25°	312	308	314	314	314	143
35°	281	281	285	288	288	176
45°	241	243	248	279	290	186
55°	192	194	227	241	241	171
65°	136	143	163	165	165	134
75°	76	89	89	91	91	80
85°	22	36	31	29	27	23
90°	4	13	11	2	2	4
95°	18	89	107	22	22	22
105°	98	317	479	553	598	104
115°	203	428	673	834	885	202
125°	306	495	738	898	943	273
135°	395	544	738	883	921	304
145°	462	557	716	820	847	289
155°	508	544	673	747	760	234
165°	548	546	598	649	658	154
175°	562	555	553	553	548	54
180°	557	557	557	557	557	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.7	336.7	336.7	336.7	336.7
2.5°	341.1	336.7	338.9	336.7	332.2
5°	341.1	336.7	338.9	336.7	334.4
7.5°	338.9	336.7	336.7	334.4	334.4
10°	338.9	334.4	336.7	334.4	332.2
12.5°	334.4	332.2	334.4	332.2	332.2
15°	330.0	327.8	330.0	330.0	330.0
17.5°	327.8	323.3	327.8	327.8	325.5
20°	321.1	318.8	323.3	323.3	323.3
22.5°	316.6	314.4	318.8	318.8	318.8
25°	312.1	307.7	314.4	314.4	314.4
27.5°	303.2	303.2	307.7	309.9	307.7
30°	296.5	294.3	301.0	303.2	301.0
32.5°	289.8	287.6	294.3	296.5	294.3
35°	280.9	280.9	285.4	287.6	287.6
37.5°	272.0	272.0	276.5	278.7	287.6
40°	263.1	263.1	267.6	280.9	289.8
42.5°	251.9	251.9	258.6	278.7	289.8
45°	240.8	243.0	247.5	278.7	289.8
47.5°	229.7	231.9	243.0	276.5	285.4
50°	216.3	220.7	238.6	269.8	276.5
52.5°	205.1	207.4	231.9	258.6	258.6
55°	191.7	194.0	227.4	240.8	240.8
57.5°	178.4	180.6	216.3	220.7	220.7
60°	165.0	167.2	202.9	202.9	202.9
62.5°	149.4	153.8	182.8	185.1	185.1
65°	136.0	142.7	162.8	165.0	165.0
67.5°	120.4	131.5	144.9	147.2	147.2
70°	107.0	120.4	124.9	127.1	127.1
72.5°	91.4	104.8	107.0	109.3	109.3
75°	75.8	89.2	89.2	91.4	91.4
77.5°	60.2	71.3	73.6	73.6	73.6
80°	46.8	53.5	58.0	55.7	55.7
82.5°	33.4	42.4	42.4	42.4	40.1
85°	22.3	35.7	31.2	29.0	26.8
87.5°	13.4	31.2	17.8	15.6	15.6
90°	4.5	13.4	11.1	2.2	2.2
92.5°	8.9	22.3	11.1	8.9	6.7
95°	17.8	89.2	107.0	22.3	22.3
97.5°	33.4	149.4	229.7	272.0	292.1
100°	51.3	223.0	307.7	376.8	401.3
102.5°	73.6	269.8	379.0	466.0	501.7
105°	98.1	316.6	479.4	552.9	597.5
107.5°	122.6	352.3	557.4	639.9	671.1
110°	151.6	381.3	606.5	749.2	758.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.4	403.6	633.2	802.7	851.7
115°	202.9	428.1	673.3	833.9	885.2
117.5°	231.9	445.9	697.9	851.7	907.5
120°	258.6	461.5	715.7	874.0	914.1
122.5°	283.2	479.4	729.1	891.8	936.4
125°	305.5	495.0	738.0	898.5	943.1
127.5°	327.8	508.4	740.2	900.8	947.6
130°	352.3	521.7	744.7	898.5	945.4
132.5°	376.8	535.1	742.5	891.8	934.2
135°	394.6	544.0	738.0	882.9	920.8
137.5°	412.5	550.7	733.5	869.5	905.2
140°	428.1	555.2	726.9	853.9	887.4
142.5°	445.9	557.4	722.4	838.3	867.3
145°	461.5	557.4	715.7	820.5	847.3
147.5°	477.1	555.2	706.8	802.7	825.0
150°	488.3	550.7	697.9	784.8	802.7
152.5°	497.2	546.3	686.7	764.8	782.6
155°	508.4	544.0	673.3	746.9	760.3
157.5°	517.3	544.0	657.7	726.9	740.2
160°	526.2	544.0	639.9	706.8	717.9
162.5°	537.3	544.0	615.4	677.8	689.0
165°	548.5	546.3	597.5	648.8	657.7
167.5°	555.2	546.3	579.7	613.1	622.1
170°	559.6	550.7	564.1	588.6	590.8
172.5°	561.9	555.2	552.9	564.1	564.1
175°	561.9	555.2	552.9	552.9	548.5
177.5°	561.9	557.4	557.4	555.2	548.5
180°	557.4	557.4	557.4	557.4	557.4

(END OF REPORT)