

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: P275024

Luminaire Tested: **J3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275024  
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 (3000K)  
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 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4530.2 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

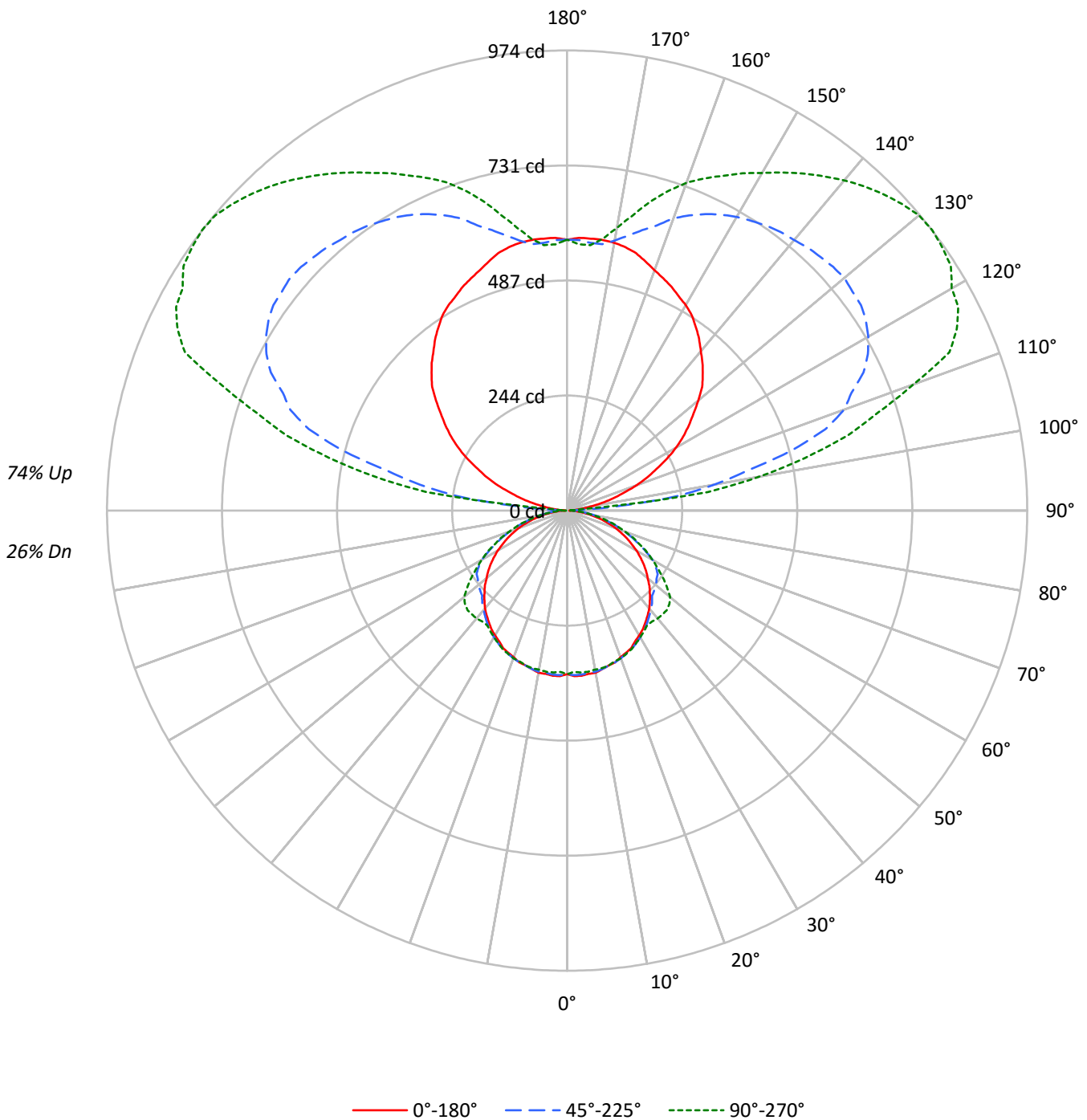
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2795	2795	2795
5°	2843	2824	2787
10°	2857	2838	2800
15°	2836	2836	2836
20°	2837	2857	2857
25°	2859	2880	2880
30°	2842	2885	2885
35°	2847	2893	2915
40°	2851	2899	3142
45°	2827	2906	3403
50°	2793	3081	3571
55°	2776	3292	3485
60°	2740	3368	3368
65°	2672	3198	3242
70°	2599	3031	3085
75°	2433	2860	2932
80°	2236	2771	2664
85°	2121	2973	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	0.7
10°-20°	95.8	2.1
20°-30°	148.1	3.3
30°-40°	183.7	4.1
40°-50°	205.5	4.5
50°-60°	200.8	4.4
60°-70°	158.5	3.5
70°-80°	95.9	2.1
80°-90°	34.1	0.8
90°-100°	117.7	2.6
100°-110°	455.1	10.0
110°-120°	625.4	13.8
120°-130°	632.7	14.0
130°-140°	560.7	12.4
140°-150°	443.5	9.8
150°-160°	309.6	6.8
160°-170°	175.2	3.9
170°-180°	54.9	1.2
0°-30°	276.9	6.1
0°-40°	460.6	10.2
0°-60°	867.0	19.1
0°-90°	1155.4	25.5
90°-120°	1198.1	26.4
90°-150°	2834.9	62.6
90°-180°	3375.0	74.5
0°-180°	4530.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	346	346	346	346	346	
5°	351	346	348	346	344	33
15°	339	337	339	339	339	96
25°	321	316	323	323	323	147
35°	289	289	294	296	296	181
45°	248	250	254	287	298	191
55°	197	200	234	248	248	176
65°	140	147	167	170	170	138
75°	78	92	92	94	94	83
85°	23	37	32	30	28	24
90°	5	14	12	2	2	4
95°	18	92	110	23	23	23
105°	101	326	493	569	614	107
115°	209	440	692	858	910	208
125°	314	509	759	924	970	281
135°	406	559	759	908	947	313
145°	475	573	736	844	871	297
155°	523	559	692	768	782	241
165°	564	562	614	667	676	159
175°	578	571	569	569	564	55
180°	573	573	573	573	573	



TEST NUMBER: P275024

CATALOG NUMBER: J3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	346.2	346.2	346.2	346.2	346.2
2.5°	350.8	346.2	348.5	346.2	341.6
5°	350.8	346.2	348.5	346.2	343.9
7.5°	348.5	346.2	346.2	343.9	343.9
10°	348.5	343.9	346.2	343.9	341.6
12.5°	343.9	341.6	343.9	341.6	341.6
15°	339.3	337.0	339.3	339.3	339.3
17.5°	337.0	332.5	337.0	337.0	334.7
20°	330.2	327.9	332.5	332.5	332.5
22.5°	325.6	323.3	327.9	327.9	327.9
25°	321.0	316.4	323.3	323.3	323.3
27.5°	311.8	311.8	316.4	318.7	316.4
30°	304.9	302.6	309.5	311.8	309.5
32.5°	298.1	295.8	302.6	304.9	302.6
35°	288.9	288.9	293.5	295.8	295.8
37.5°	279.7	279.7	284.3	286.6	295.8
40°	270.5	270.5	275.1	288.9	298.1
42.5°	259.1	259.1	266.0	286.6	298.1
45°	247.6	249.9	254.5	286.6	298.1
47.5°	236.2	238.4	249.9	284.3	293.5
50°	222.4	227.0	245.3	277.4	284.3
52.5°	210.9	213.2	238.4	266.0	266.0
55°	197.2	199.5	233.9	247.6	247.6
57.5°	183.4	185.7	222.4	227.0	227.0
60°	169.7	172.0	208.6	208.6	208.6
62.5°	153.6	158.2	188.0	190.3	190.3
65°	139.9	146.7	167.4	169.7	169.7
67.5°	123.8	135.3	149.0	151.3	151.3
70°	110.1	123.8	128.4	130.7	130.7
72.5°	94.0	107.8	110.1	112.3	112.3
75°	78.0	91.7	91.7	94.0	94.0
77.5°	61.9	73.4	75.7	75.7	75.7
80°	48.1	55.0	59.6	57.3	57.3
82.5°	34.4	43.6	43.6	43.6	41.3
85°	22.9	36.7	32.1	29.8	27.5
87.5°	13.8	32.1	18.3	16.0	16.0
90°	4.6	13.8	11.5	2.3	2.3
92.5°	9.2	22.9	11.5	9.2	6.9
95°	18.3	91.7	110.1	22.9	22.9
97.5°	34.4	153.6	236.2	279.7	300.4
100°	52.7	229.3	316.4	387.5	412.7
102.5°	75.7	277.4	389.8	479.2	515.9
105°	100.9	325.6	492.9	568.6	614.5
107.5°	126.1	362.3	573.2	658.0	690.1
110°	155.9	392.1	623.6	770.4	779.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	183.4	415.0	651.1	825.4	875.8
115°	208.6	440.2	692.4	857.5	910.2
117.5°	238.4	458.6	717.6	875.8	933.2
120°	266.0	474.6	736.0	898.8	940.0
122.5°	291.2	492.9	749.7	917.1	963.0
125°	314.1	509.0	758.9	924.0	969.8
127.5°	337.0	522.7	761.2	926.3	974.4
130°	362.3	536.5	765.8	924.0	972.1
132.5°	387.5	550.3	763.5	917.1	960.7
135°	405.8	559.4	758.9	907.9	946.9
137.5°	424.2	566.3	754.3	894.2	930.9
140°	440.2	570.9	747.4	878.1	912.5
142.5°	458.6	573.2	742.9	862.1	891.9
145°	474.6	573.2	736.0	843.7	871.2
147.5°	490.7	570.9	726.8	825.4	848.3
150°	502.1	566.3	717.6	807.1	825.4
152.5°	511.3	561.7	706.2	786.4	804.8
155°	522.7	559.4	692.4	768.1	781.8
157.5°	531.9	559.4	676.4	747.4	761.2
160°	541.1	559.4	658.0	726.8	738.3
162.5°	552.6	559.4	632.8	697.0	708.5
165°	564.0	561.7	614.5	667.2	676.4
167.5°	570.9	561.7	596.1	630.5	639.7
170°	575.5	566.3	580.1	605.3	607.6
172.5°	577.8	570.9	568.6	580.1	580.1
175°	577.8	570.9	568.6	568.6	564.0
177.5°	577.8	573.2	573.2	570.9	564.0
180°	573.2	573.2	573.2	573.2	573.2

(END OF REPORT)