

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: P275026

Luminaire Tested: **J3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275026  
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 (4000K)  
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 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4789.4 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

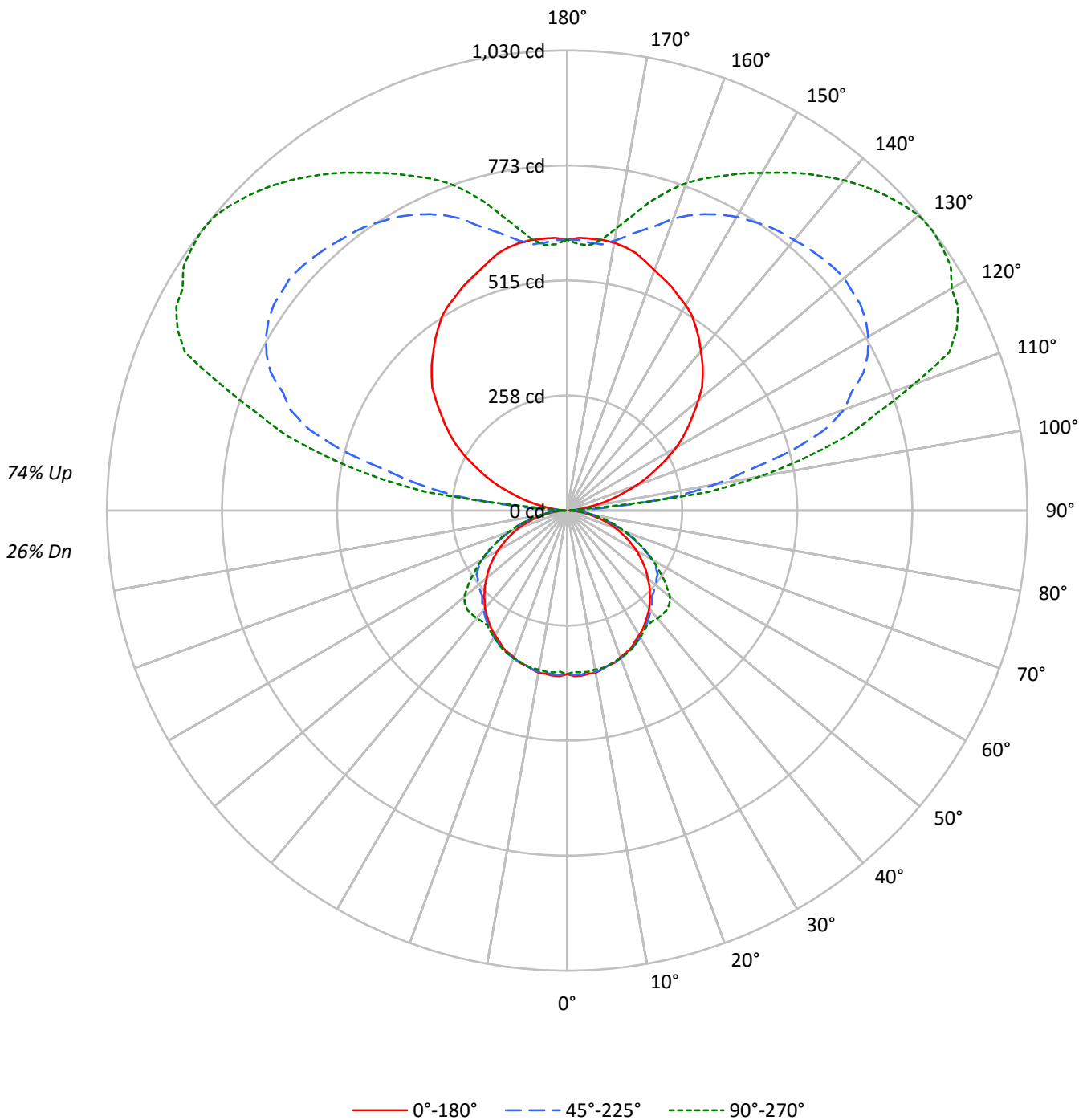
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2955	2955	2955
5°	3006	2985	2947
10°	3020	3000	2961
15°	2998	2998	2998
20°	2998	3020	3020
25°	3022	3045	3045
30°	3005	3050	3050
35°	3010	3058	3082
40°	3014	3066	3321
45°	2989	3072	3597
50°	2953	3258	3775
55°	2935	3479	3685
60°	2897	3562	3562
65°	2825	3379	3427
70°	2745	3203	3262
75°	2570	3026	3100
80°	2366	2929	2817
85°	2242	3140	2695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	0.7
10°-20°	101.3	2.1
20°-30°	156.6	3.3
30°-40°	194.2	4.1
40°-50°	217.3	4.5
50°-60°	212.3	4.4
60°-70°	167.5	3.5
70°-80°	101.4	2.1
80°-90°	36.1	0.8
90°-100°	124.4	2.6
100°-110°	481.1	10.0
110°-120°	661.1	13.8
120°-130°	668.9	14.0
130°-140°	592.8	12.4
140°-150°	468.8	9.8
150°-160°	327.4	6.8
160°-170°	185.3	3.9
170°-180°	58.1	1.2
0°-30°	292.8	6.1
0°-40°	486.9	10.2
0°-60°	916.6	19.1
0°-90°	1221.6	25.5
90°-120°	1266.6	26.4
90°-150°	2997.1	62.6
90°-180°	3568.0	74.5
0°-180°	4789.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	366	366	366	366	366	
5°	371	366	368	366	364	35
15°	359	356	359	359	359	102
25°	339	334	342	342	342	156
35°	305	305	310	313	313	191
45°	262	264	269	303	315	202
55°	208	211	247	262	262	186
65°	148	155	177	179	179	146
75°	82	97	97	99	99	87
85°	24	39	34	32	29	25
90°	5	14	12	2	2	5
95°	19	97	116	24	24	24
105°	107	344	521	601	650	113
115°	221	465	732	906	962	220
125°	332	538	802	977	1025	297
135°	429	591	802	960	1001	330
145°	502	606	778	892	921	314
155°	553	591	732	812	827	255
165°	596	594	650	705	715	168
175°	611	604	601	601	596	58
180°	606	606	606	606	606	



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CATALOG NUMBER: J3-CL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	366.0	366.0	366.0	366.0	366.0
2.5°	370.9	366.0	368.4	366.0	361.2
5°	370.9	366.0	368.4	366.0	363.6
7.5°	368.4	366.0	366.0	363.6	363.6
10°	368.4	363.6	366.0	363.6	361.2
12.5°	363.6	361.2	363.6	361.2	361.2
15°	358.7	356.3	358.7	358.7	358.7
17.5°	356.3	351.5	356.3	356.3	353.9
20°	349.0	346.6	351.5	351.5	351.5
22.5°	344.2	341.8	346.6	346.6	346.6
25°	339.3	334.5	341.8	341.8	341.8
27.5°	329.7	329.7	334.5	336.9	334.5
30°	322.4	320.0	327.2	329.7	327.2
32.5°	315.1	312.7	320.0	322.4	320.0
35°	305.4	305.4	310.3	312.7	312.7
37.5°	295.7	295.7	300.6	303.0	312.7
40°	286.0	286.0	290.9	305.4	315.1
42.5°	273.9	273.9	281.2	303.0	315.1
45°	261.8	264.2	269.1	303.0	315.1
47.5°	249.7	252.1	264.2	300.6	310.3
50°	235.1	240.0	259.4	293.3	300.6
52.5°	223.0	225.4	252.1	281.2	281.2
55°	208.5	210.9	247.2	261.8	261.8
57.5°	193.9	196.3	235.1	240.0	240.0
60°	179.4	181.8	220.6	220.6	220.6
62.5°	162.4	167.3	198.8	201.2	201.2
65°	147.9	155.1	176.9	179.4	179.4
67.5°	130.9	143.0	157.6	160.0	160.0
70°	116.3	130.9	135.7	138.2	138.2
72.5°	99.4	113.9	116.3	118.8	118.8
75°	82.4	97.0	97.0	99.4	99.4
77.5°	65.4	77.6	80.0	80.0	80.0
80°	50.9	58.2	63.0	60.6	60.6
82.5°	36.4	46.1	46.1	46.1	43.6
85°	24.2	38.8	33.9	31.5	29.1
87.5°	14.5	33.9	19.4	17.0	17.0
90°	4.8	14.5	12.1	2.4	2.4
92.5°	9.7	24.2	12.1	9.7	7.3
95°	19.4	97.0	116.3	24.2	24.2
97.5°	36.4	162.4	249.7	295.7	317.5
100°	55.8	242.4	334.5	409.6	436.3
102.5°	80.0	293.3	412.1	506.6	545.4
105°	106.7	344.2	521.1	601.1	649.6
107.5°	133.3	383.0	606.0	695.7	729.6
110°	164.8	414.5	659.3	814.4	824.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	193.9	438.7	688.4	872.6	925.9
115°	220.6	465.4	732.0	906.5	962.3
117.5°	252.1	484.8	758.7	925.9	986.5
120°	281.2	501.8	778.1	950.2	993.8
122.5°	307.8	521.1	792.6	969.6	1018.0
125°	332.1	538.1	802.3	976.8	1025.3
127.5°	356.3	552.7	804.7	979.3	1030.2
130°	383.0	567.2	809.6	976.8	1027.7
132.5°	409.6	581.7	807.2	969.6	1015.6
135°	429.0	591.4	802.3	959.9	1001.1
137.5°	448.4	598.7	797.5	945.3	984.1
140°	465.4	603.6	790.2	928.4	964.7
142.5°	484.8	606.0	785.3	911.4	942.9
145°	501.8	606.0	778.1	892.0	921.1
147.5°	518.7	603.6	768.4	872.6	896.8
150°	530.8	598.7	758.7	853.2	872.6
152.5°	540.5	593.9	746.6	831.4	850.8
155°	552.7	591.4	732.0	812.0	826.6
157.5°	562.3	591.4	715.1	790.2	804.7
160°	572.0	591.4	695.7	768.4	780.5
162.5°	584.2	591.4	669.0	736.9	749.0
165°	596.3	593.9	649.6	705.4	715.1
167.5°	603.6	593.9	630.2	666.6	676.3
170°	608.4	598.7	613.3	639.9	642.3
172.5°	610.8	603.6	601.1	613.3	613.3
175°	610.8	603.6	601.1	601.1	596.3
177.5°	610.8	606.0	606.0	603.6	596.3
180°	606.0	606.0	606.0	606.0	606.0

(END OF REPORT)