

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: P275204

Luminaire Tested: **J3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-40L82765-1D-UNV-W2A-W-4 (5000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4133.4 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

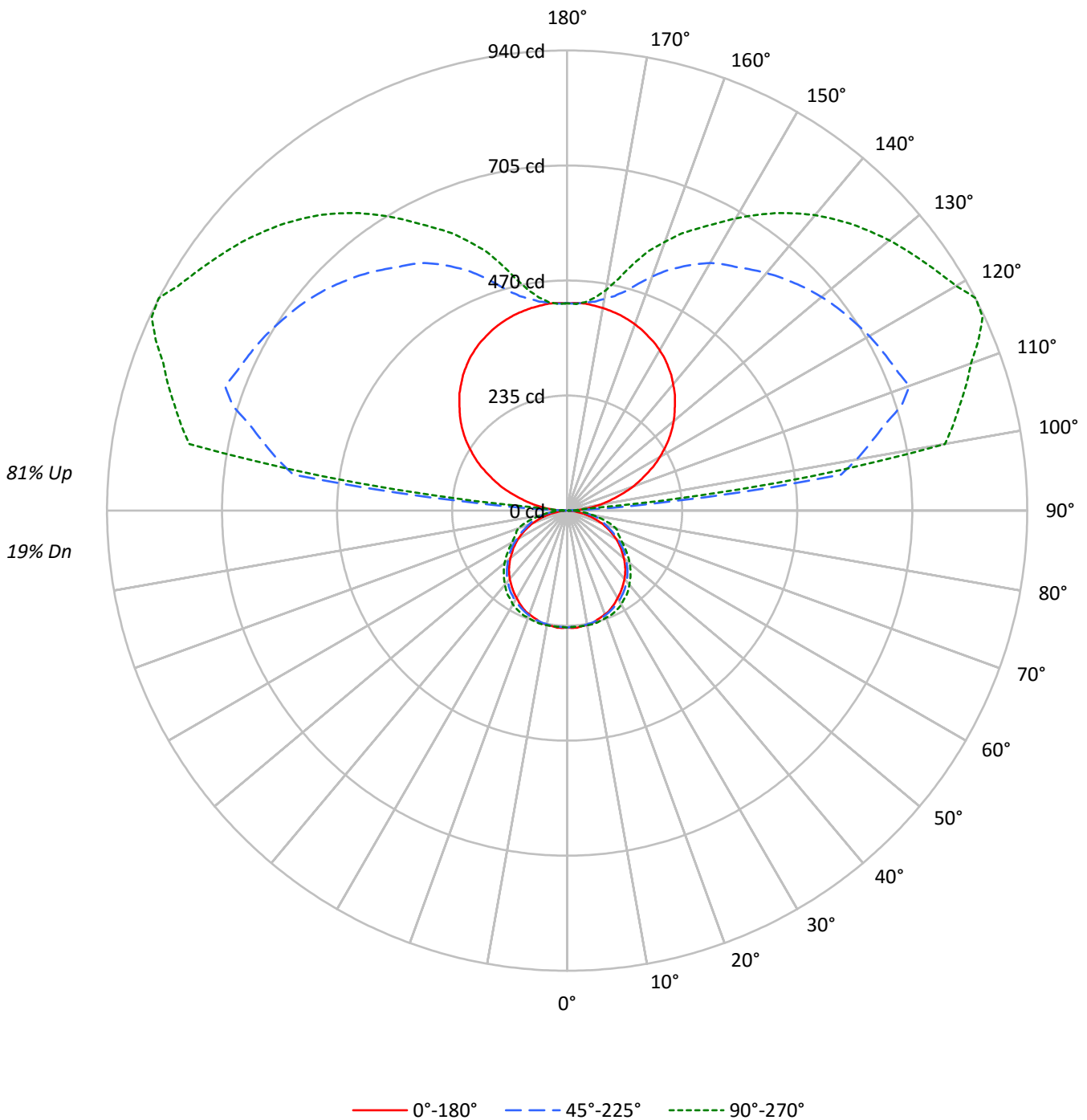
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	19	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1929	1929	1929
5°	1945	1928	1928
10°	1942	1934	1950
15°	1937	1946	1980
20°	1938	1955	2000
25°	1936	1963	2037
30°	1920	1978	2065
35°	1919	1990	2081
40°	1921	1987	2085
45°	1917	1988	2093
50°	1901	1979	2096
55°	1885	1972	2087
60°	1863	1946	2096
65°	1811	1927	2204
70°	1751	1945	2504
75°	1606	2218	2539
80°	1390	2250	2441
85°	1047	2482	2770



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.7	0.5
10°-20°	66.1	1.6
20°-30°	102.3	2.5
30°-40°	126.6	3.1
40°-50°	135.0	3.3
50°-60°	125.8	3.0
60°-70°	102.7	2.5
70°-80°	70.7	1.7
80°-90°	27.7	0.7
90°-100°	240.7	5.8
100°-110°	623.8	15.1
110°-120°	647.1	15.7
120°-130°	576.0	13.9
130°-140°	479.9	11.6
140°-150°	365.5	8.8
150°-160°	246.1	6.0
160°-170°	133.6	3.2
170°-180°	41.1	1.0
0°-30°	191.2	4.6
0°-40°	317.7	7.7
0°-60°	578.5	14.0
0°-90°	779.6	18.9
90°-120°	1511.6	36.6
90°-150°	2932.9	71.0
90°-180°	3354.0	81.1
0°-180°	4133.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	239	239	239	239	239	
5°	240	240	238	238	238	23
15°	232	233	233	236	237	66
25°	217	217	220	227	229	100
35°	195	197	202	208	211	122
45°	168	170	174	180	183	129
55°	134	137	140	144	148	119
65°	95	97	101	110	115	94
75°	52	55	71	79	81	54
85°	11	22	27	31	30	13
90°	2	2	2	2	2	4
95°	35	272	209	34	33	35
105°	102	432	670	793	830	109
115°	180	446	726	906	936	179
125°	253	456	696	845	888	226
135°	311	469	657	786	826	240
145°	360	460	607	707	742	225
155°	392	440	549	619	636	181
165°	414	428	464	508	521	117
175°	424	426	426	428	428	40
180°	423	423	423	423	423	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	239.0	239.0	239.0	239.0	239.0
2.5°	240.0	240.0	237.9	237.9	237.9
5°	240.0	240.0	237.9	237.9	237.9
7.5°	237.9	239.0	237.9	237.9	237.9
10°	236.9	236.9	235.9	236.9	237.9
12.5°	235.9	235.9	234.8	236.9	237.9
15°	231.8	232.8	232.8	235.9	236.9
17.5°	228.7	229.7	230.7	233.8	234.8
20°	225.6	225.6	227.6	231.8	232.8
22.5°	222.5	222.5	224.5	229.7	231.8
25°	217.3	217.3	220.4	226.6	228.7
27.5°	212.2	213.2	216.3	222.5	225.6
30°	206.0	208.1	212.2	218.4	221.5
32.5°	200.9	202.9	207.0	213.2	215.3
35°	194.7	196.7	201.9	208.1	211.2
37.5°	188.5	190.6	195.7	201.9	205.0
40°	182.3	184.4	188.5	195.7	197.8
42.5°	175.1	177.2	182.3	188.5	190.6
45°	167.9	170.0	174.1	180.3	183.3
47.5°	159.7	162.7	165.8	172.0	175.1
50°	151.4	154.5	157.6	163.8	166.9
52.5°	142.1	146.3	149.4	154.5	157.6
55°	133.9	137.0	140.1	144.2	148.3
57.5°	124.6	127.7	130.8	136.0	139.1
60°	115.4	117.4	120.5	125.7	129.8
62.5°	105.1	108.2	110.2	116.4	122.6
65°	94.8	96.8	100.9	110.2	115.4
67.5°	84.5	86.5	90.6	104.0	112.3
70°	74.2	76.2	82.4	100.9	106.1
72.5°	61.8	64.9	75.2	92.7	94.8
75°	51.5	54.6	71.1	79.3	81.4
77.5°	40.2	44.3	60.8	65.9	67.0
80°	29.9	37.1	48.4	52.5	52.5
82.5°	19.6	30.9	37.1	41.2	41.2
85°	11.3	21.6	26.8	30.9	29.9
87.5°	7.2	14.4	20.6	23.7	22.7
90°	2.1	2.1	2.1	2.1	2.1
92.5°	19.6	54.6	16.5	15.5	15.5
95°	35.0	271.9	209.1	34.0	33.0
97.5°	49.4	331.7	564.4	666.4	432.6
100°	67.0	394.5	600.5	742.6	783.8
102.5°	83.4	421.3	633.5	763.2	807.5
105°	102.0	431.6	669.5	793.1	830.2
107.5°	122.6	437.8	716.9	817.8	854.9
110°	143.2	440.8	743.7	850.8	877.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	161.7	442.9	733.4	884.8	909.5
115°	180.3	446.0	726.2	906.4	936.3
117.5°	200.9	448.1	720.0	885.8	940.4
120°	218.4	451.1	712.8	871.4	917.7
122.5°	235.9	454.2	704.5	858.0	902.3
125°	253.4	456.3	696.3	844.6	887.9
127.5°	268.8	458.4	688.0	830.2	873.4
130°	284.3	464.5	678.8	816.8	859.0
132.5°	297.7	468.7	668.5	800.3	842.5
135°	311.1	468.7	657.1	785.9	826.1
137.5°	325.5	468.7	645.8	767.4	807.5
140°	336.8	466.6	633.5	748.8	788.0
142.5°	349.2	464.5	620.1	729.2	765.3
145°	359.5	460.4	606.7	706.6	741.6
147.5°	369.8	455.3	596.4	683.9	715.9
150°	378.0	450.1	584.0	661.3	689.1
152.5°	386.3	443.9	567.5	639.6	661.3
155°	392.4	439.8	549.0	619.0	636.5
157.5°	399.6	436.7	530.5	595.3	612.9
160°	404.8	432.6	508.8	568.6	584.0
162.5°	409.9	429.5	486.2	539.7	556.2
165°	414.1	427.5	464.5	507.8	521.2
167.5°	417.2	426.4	449.1	475.9	485.1
170°	420.2	425.4	438.8	454.2	457.3
172.5°	422.3	425.4	430.5	437.8	438.8
175°	424.4	426.4	426.4	428.5	427.5
177.5°	424.4	425.4	423.3	424.4	422.3
180°	423.3	423.3	423.3	423.3	423.3

(END OF REPORT)