

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: P253305

Luminaire Tested: **J3-UL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-50L830-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
Light Source: (224) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

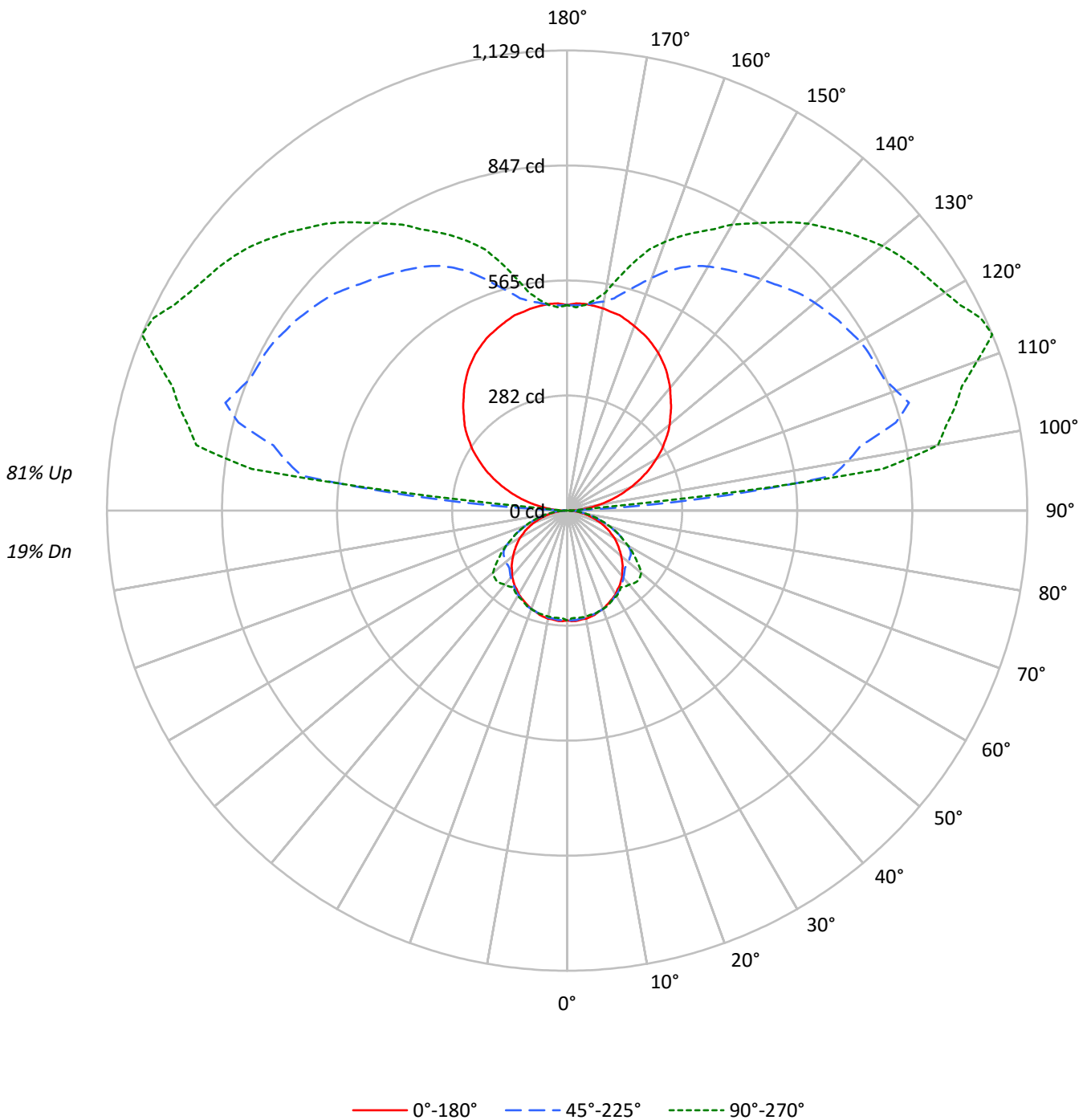
Lumens per Lamp: N/A  
Luminaire Lumens: 4880.6 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.33 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 33.5  
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	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	36	30	28	26	18	17	16	10
4	68	58	50	44	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	43	38	55	45	39	34	34	30	26	24	21	19	14	13	11	7
6	57	46	38	32	50	40	34	29	31	26	23	21	18	16	13	11	10	6
7	53	41	33	28	46	36	30	25	28	23	20	19	16	14	12	10	9	6
8	49	37	30	24	43	33	26	22	25	20	17	18	15	12	11	9	8	5
9	45	33	26	21	40	30	24	19	23	18	15	16	13	11	10	8	7	4
10	42	30	24	19	37	27	21	17	21	16	13	15	12	10	9	7	6	4

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

	0°	45°	90°
0°	2174	2174	2174
5°	2202	2182	2142
10°	2208	2187	2167
15°	2209	2189	2189
20°	2207	2207	2207
25°	2200	2222	2222
30°	2211	2234	2257
35°	2215	2240	2264
40°	2213	2265	2500
45°	2200	2285	2793
50°	2171	2482	2979
55°	2156	2677	2885
60°	2154	2792	2792
65°	2124	2690	2690
70°	2042	2566	2566
75°	1928	2389	2467
80°	1836	2297	2297
85°	1602	2742	2288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.5	0.5
10°-20°	74.0	1.5
20°-30°	114.7	2.4
30°-40°	143.0	2.9
40°-50°	163.0	3.3
50°-60°	162.8	3.3
60°-70°	129.7	2.7
70°-80°	79.9	1.6
80°-90°	28.6	0.6
90°-100°	303.3	6.2
100°-110°	738.9	15.1
110°-120°	755.5	15.5
120°-130°	670.5	13.7
130°-140°	561.1	11.5
140°-150°	429.3	8.8
150°-160°	292.1	6.0
160°-170°	159.8	3.3
170°-180°	48.9	1.0
0°-30°	214.2	4.4
0°-40°	357.2	7.3
0°-60°	683.0	14.0
0°-90°	921.1	18.9
90°-120°	1797.8	36.8
90°-150°	3458.7	70.9
90°-180°	3959.0	81.1
0°-180°	4880.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	269	269	269	269	269	
5°	272	267	269	267	264	26
15°	264	262	262	262	262	74
25°	247	247	250	250	250	114
35°	225	225	227	230	230	140
45°	193	193	200	232	245	148
55°	153	156	190	205	205	137
65°	111	119	141	141	141	109
75°	62	77	77	79	79	65
85°	17	25	30	27	25	19
90°	5	10	5	0	0	6
95°	40	324	324	40	40	40
105°	121	496	835	934	986	128
115°	210	506	838	1047	1119	208
125°	292	524	813	988	1042	261
135°	361	546	768	921	966	278
145°	422	541	716	832	862	264
155°	467	514	657	739	754	215
165°	496	506	556	613	630	140
175°	509	504	506	509	506	48
180°	504	504	504	504	504	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	269.3	269.3	269.3	269.3	269.3
2.5°	271.7	269.3	269.3	266.8	264.3
5°	271.7	266.8	269.3	266.8	264.3
7.5°	269.3	266.8	266.8	266.8	264.3
10°	269.3	264.3	266.8	264.3	264.3
12.5°	266.8	264.3	264.3	264.3	261.9
15°	264.3	261.9	261.9	261.9	261.9
17.5°	259.4	256.9	259.4	259.4	259.4
20°	256.9	254.4	256.9	256.9	256.9
22.5°	252.0	249.5	254.4	254.4	254.4
25°	247.0	247.0	249.5	249.5	249.5
27.5°	242.1	242.1	244.6	247.0	244.6
30°	237.2	234.7	239.6	242.1	242.1
32.5°	229.7	229.7	234.7	234.7	237.2
35°	224.8	224.8	227.3	229.7	229.7
37.5°	217.4	217.4	222.3	224.8	234.7
40°	210.0	210.0	214.9	227.3	237.2
42.5°	200.1	202.6	207.5	227.3	242.1
45°	192.7	192.7	200.1	232.2	244.6
47.5°	182.8	185.3	197.6	232.2	242.1
50°	172.9	175.4	197.6	229.7	237.2
52.5°	163.0	165.5	192.7	219.9	222.3
55°	153.2	155.6	190.2	205.0	205.0
57.5°	143.3	145.8	185.3	190.2	190.2
60°	133.4	135.9	172.9	172.9	172.9
62.5°	121.0	123.5	155.6	155.6	155.6
65°	111.2	118.6	140.8	140.8	140.8
67.5°	98.8	108.7	123.5	126.0	126.0
70°	86.5	101.3	108.7	108.7	108.7
72.5°	74.1	91.4	91.4	93.9	93.9
75°	61.8	76.6	76.6	79.1	79.1
77.5°	49.4	61.8	61.8	64.2	64.2
80°	39.5	46.9	49.4	49.4	49.4
82.5°	29.6	37.1	37.1	37.1	37.1
85°	17.3	24.7	29.6	27.2	24.7
87.5°	9.9	19.8	19.8	17.3	14.8
90°	4.9	9.9	4.9	0.0	0.0
92.5°	24.7	81.5	24.7	17.3	17.3
95°	39.5	323.6	323.6	39.5	39.5
97.5°	56.8	400.2	657.1	827.6	780.6
100°	76.6	499.0	699.1	864.6	923.9
102.5°	98.8	491.6	738.6	896.7	951.1
105°	121.0	496.5	835.0	933.8	985.7
107.5°	143.3	496.5	879.4	958.5	1015.3
110°	165.5	496.5	859.7	1059.8	1069.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	187.7	501.5	842.4	1067.2	1129.0
115°	210.0	506.4	837.5	1047.4	1119.1
117.5°	232.2	508.9	835.0	1022.7	1089.4
120°	252.0	511.4	830.0	1012.8	1069.7
122.5°	274.2	516.3	820.2	1000.5	1054.8
125°	291.5	523.7	812.7	988.1	1042.5
127.5°	311.3	528.7	802.9	975.8	1027.7
130°	328.6	536.1	793.0	956.0	1010.4
132.5°	343.4	543.5	783.1	941.2	988.1
135°	360.7	545.9	768.3	921.4	965.9
137.5°	375.5	548.4	753.5	904.2	941.2
140°	392.8	545.9	741.1	879.4	919.0
142.5°	407.6	543.5	728.8	854.7	891.8
145°	422.4	541.0	716.4	832.5	862.2
147.5°	434.8	536.1	704.1	807.8	835.0
150°	447.1	528.7	691.7	785.6	810.3
152.5°	457.0	521.2	676.9	760.9	778.2
155°	466.9	513.8	657.1	738.6	753.5
157.5°	474.3	508.9	634.9	713.9	728.8
160°	481.7	506.4	607.7	689.2	701.6
162.5°	489.1	506.4	580.5	657.1	671.9
165°	496.5	506.4	555.8	612.6	629.9
167.5°	499.0	504.0	533.6	570.7	585.5
170°	504.0	504.0	521.2	538.5	543.5
172.5°	506.4	504.0	513.8	521.2	521.2
175°	508.9	504.0	506.4	508.9	506.4
177.5°	508.9	504.0	504.0	504.0	499.0
180°	504.0	504.0	504.0	504.0	504.0

(END OF REPORT)