

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: P253447

Luminaire Tested: **J3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253447  
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-30L83050-1D-UNV-W2A-W-4 (3500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2885.2 lumens  
Efficiency: N/A  
Efficacy: 139.4 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

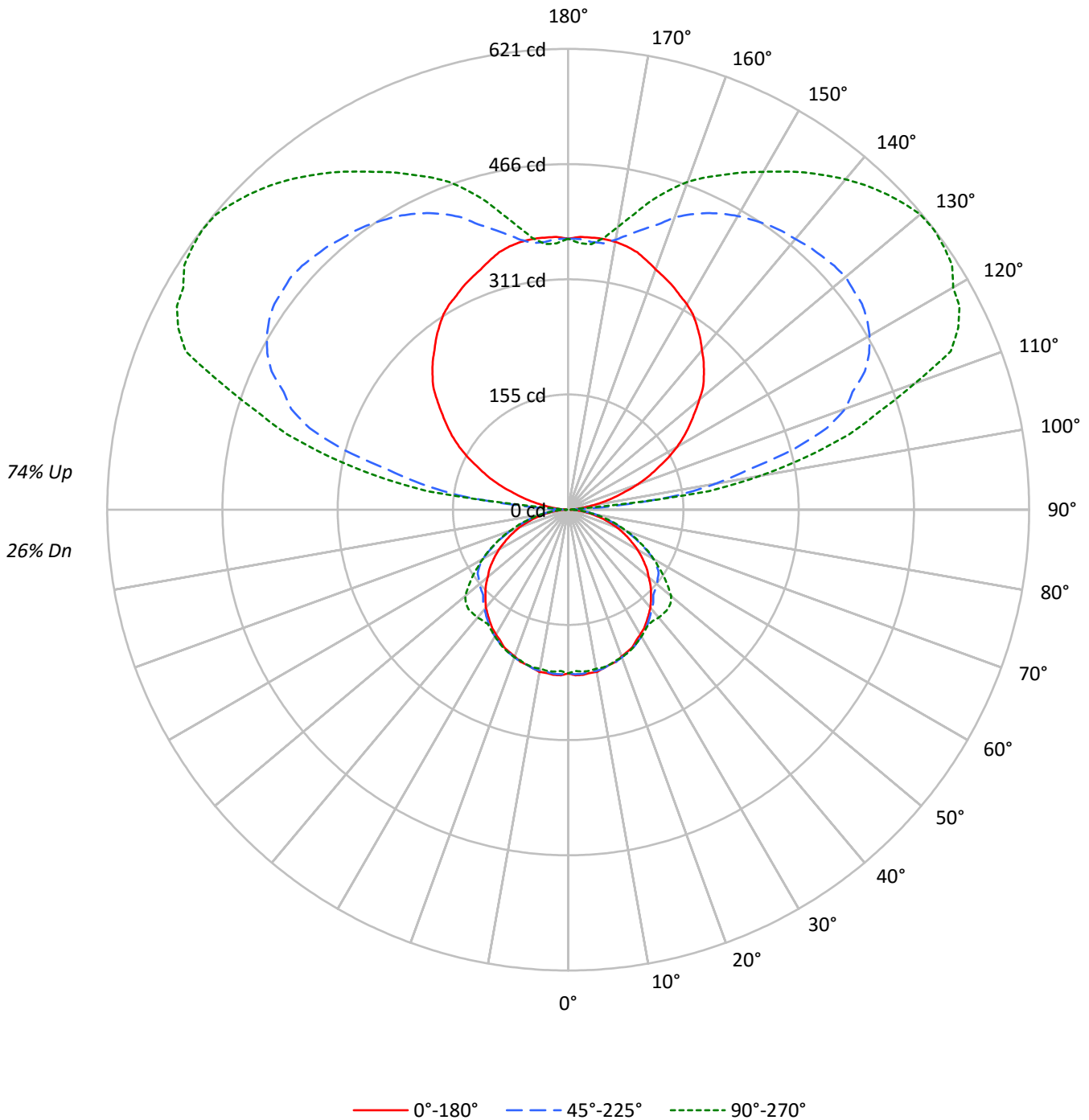
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1780	1780	1780
5°	1810	1799	1775
10°	1820	1808	1784
15°	1806	1806	1806
20°	1807	1819	1819
25°	1821	1834	1834
30°	1810	1837	1837
35°	1813	1842	1857
40°	1816	1846	2000
45°	1800	1851	2167
50°	1778	1962	2274
55°	1768	2096	2220
60°	1745	2146	2146
65°	1702	2036	2065
70°	1655	1931	1964
75°	1547	1822	1868
80°	1427	1767	1697
85°	1352	1890	1621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.0	0.7
10°-20°	61.0	2.1
20°-30°	94.3	3.3
30°-40°	117.0	4.1
40°-50°	130.9	4.5
50°-60°	127.9	4.4
60°-70°	100.9	3.5
70°-80°	61.1	2.1
80°-90°	21.7	0.8
90°-100°	74.9	2.6
100°-110°	289.8	10.0
110°-120°	398.3	13.8
120°-130°	402.9	14.0
130°-140°	357.1	12.4
140°-150°	282.4	9.8
150°-160°	197.2	6.8
160°-170°	111.6	3.9
170°-180°	35.0	1.2
0°-30°	176.4	6.1
0°-40°	293.3	10.2
0°-60°	552.2	19.1
0°-90°	735.9	25.5
90°-120°	763.0	26.4
90°-150°	1805.5	62.6
90°-180°	2149.0	74.5
0°-180°	2885.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	220	220	220	220	220	
5°	223	220	222	220	219	21
15°	216	215	216	216	216	61
25°	204	202	206	206	206	94
35°	184	184	187	188	188	115
45°	158	159	162	182	190	122
55°	126	127	149	158	158	112
65°	89	94	107	108	108	88
75°	50	58	58	60	60	53
85°	15	23	20	19	18	15
90°	3	9	7	2	2	3
95°	12	58	70	15	15	14
105°	64	207	314	362	391	68
115°	133	280	441	546	580	133
125°	200	324	483	588	618	179
135°	258	356	483	578	603	199
145°	302	365	469	537	555	189
155°	333	356	441	489	498	154
165°	359	358	391	425	431	101
175°	368	364	362	362	359	35
180°	365	365	365	365	365	



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CATALOG NUMBER: J3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	220.5	220.5	220.5	220.5	220.5
2.5°	223.4	220.5	222.0	220.5	217.6
5°	223.4	220.5	222.0	220.5	219.0
7.5°	222.0	220.5	220.5	219.0	219.0
10°	222.0	219.0	220.5	219.0	217.6
12.5°	219.0	217.6	219.0	217.6	217.6
15°	216.1	214.7	216.1	216.1	216.1
17.5°	214.7	211.7	214.7	214.7	213.2
20°	210.3	208.8	211.7	211.7	211.7
22.5°	207.4	205.9	208.8	208.8	208.8
25°	204.4	201.5	205.9	205.9	205.9
27.5°	198.6	198.6	201.5	203.0	201.5
30°	194.2	192.7	197.1	198.6	197.1
32.5°	189.8	188.4	192.7	194.2	192.7
35°	184.0	184.0	186.9	188.4	188.4
37.5°	178.1	178.1	181.1	182.5	188.4
40°	172.3	172.3	175.2	184.0	189.8
42.5°	165.0	165.0	169.4	182.5	189.8
45°	157.7	159.2	162.1	182.5	189.8
47.5°	150.4	151.9	159.2	181.1	186.9
50°	141.6	144.6	156.2	176.7	181.1
52.5°	134.3	135.8	151.9	169.4	169.4
55°	125.6	127.0	148.9	157.7	157.7
57.5°	116.8	118.3	141.6	144.6	144.6
60°	108.1	109.5	132.9	132.9	132.9
62.5°	97.8	100.8	119.7	121.2	121.2
65°	89.1	93.5	106.6	108.1	108.1
67.5°	78.9	86.2	94.9	96.4	96.4
70°	70.1	78.9	81.8	83.2	83.2
72.5°	59.9	68.6	70.1	71.6	71.6
75°	49.6	58.4	58.4	59.9	59.9
77.5°	39.4	46.7	48.2	48.2	48.2
80°	30.7	35.0	38.0	36.5	36.5
82.5°	21.9	27.7	27.7	27.7	26.3
85°	14.6	23.4	20.4	19.0	17.5
87.5°	8.8	20.4	11.7	10.2	10.2
90°	2.9	8.8	7.3	1.5	1.5
92.5°	5.8	14.6	7.3	5.8	4.4
95°	11.7	58.4	70.1	14.6	14.6
97.5°	21.9	97.8	150.4	178.1	191.3
100°	33.6	146.0	201.5	246.8	262.8
102.5°	48.2	176.7	248.2	305.2	328.5
105°	64.2	207.4	313.9	362.1	391.3
107.5°	80.3	230.7	365.1	419.1	439.5
110°	99.3	249.7	397.2	490.6	496.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	116.8	264.3	414.7	525.7	557.8
115°	132.9	280.4	441.0	546.1	579.7
117.5°	151.9	292.0	457.0	557.8	594.3
120°	169.4	302.3	468.7	572.4	598.7
122.5°	185.4	313.9	477.5	584.1	613.3
125°	200.0	324.2	483.3	588.5	617.7
127.5°	214.7	332.9	484.8	589.9	620.6
130°	230.7	341.7	487.7	588.5	619.1
132.5°	246.8	350.5	486.3	584.1	611.8
135°	258.5	356.3	483.3	578.2	603.1
137.5°	270.1	360.7	480.4	569.5	592.8
140°	280.4	363.6	476.0	559.3	581.2
142.5°	292.0	365.1	473.1	549.0	568.0
145°	302.3	365.1	468.7	537.4	554.9
147.5°	312.5	363.6	462.9	525.7	540.3
150°	319.8	360.7	457.0	514.0	525.7
152.5°	325.6	357.8	449.7	500.9	512.5
155°	332.9	356.3	441.0	489.2	497.9
157.5°	338.8	356.3	430.8	476.0	484.8
160°	344.6	356.3	419.1	462.9	470.2
162.5°	351.9	356.3	403.0	443.9	451.2
165°	359.2	357.8	391.3	424.9	430.8
167.5°	363.6	357.8	379.7	401.6	407.4
170°	366.5	360.7	369.4	385.5	387.0
172.5°	368.0	363.6	362.1	369.4	369.4
175°	368.0	363.6	362.1	362.1	359.2
177.5°	368.0	365.1	365.1	363.6	359.2
180°	365.1	365.1	365.1	365.1	365.1

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