

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: P253467

Luminaire Tested: **J3-CL-50L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253467  
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-50L83050-1D-UNV-W2A-W-4 (5000K)  
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 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5095.1 lumens  
Efficiency: N/A  
Efficacy: 137.0 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

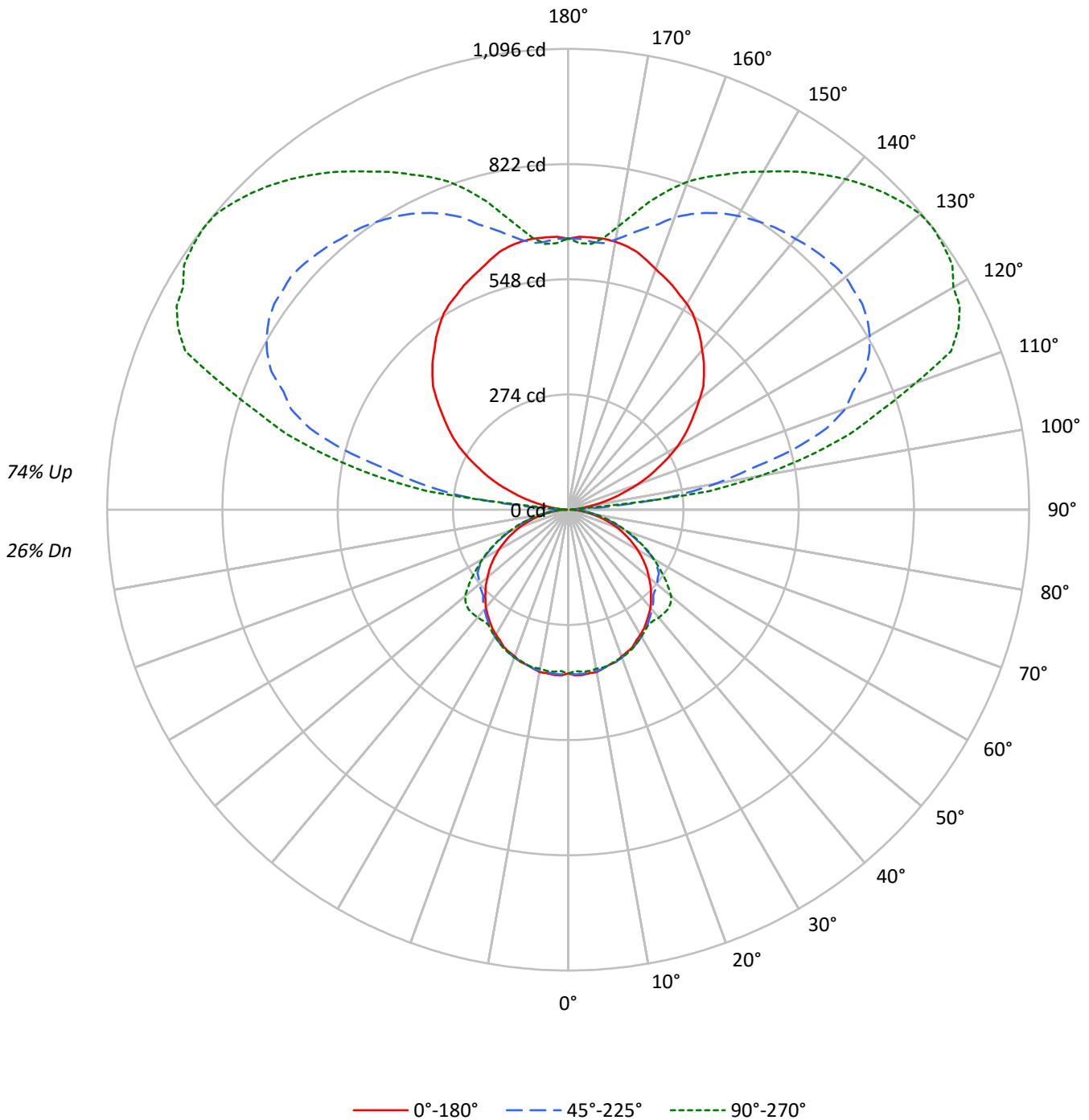
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3144	3144	3144
5°	3197	3177	3135
10°	3213	3192	3149
15°	3189	3189	3189
20°	3190	3212	3212
25°	3216	3239	3239
30°	3197	3245	3245
35°	3202	3253	3279
40°	3207	3261	3532
45°	3180	3268	3827
50°	3141	3465	4016
55°	3122	3702	3920
60°	3081	3789	3789
65°	3005	3595	3645
70°	2922	3408	3470
75°	2735	3216	3297
80°	2520	3115	2999
85°	2390	3344	2862



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.1	0.7
10°-20°	107.8	2.1
20°-30°	166.6	3.3
30°-40°	206.6	4.1
40°-50°	231.2	4.5
50°-60°	225.9	4.4
60°-70°	178.2	3.5
70°-80°	107.8	2.1
80°-90°	38.4	0.8
90°-100°	132.4	2.6
100°-110°	511.8	10.0
110°-120°	703.3	13.8
120°-130°	711.6	14.0
130°-140°	630.6	12.4
140°-150°	498.8	9.8
150°-160°	348.3	6.8
160°-170°	197.1	3.9
170°-180°	61.8	1.2
0°-30°	311.5	6.1
0°-40°	518.0	10.2
0°-60°	975.1	19.1
0°-90°	1299.5	25.5
90°-120°	1347.5	26.4
90°-150°	3188.5	62.6
90°-180°	3796.0	74.5
0°-180°	5095.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	394	389	392	389	387	38
15°	382	379	382	382	382	108
25°	361	356	364	364	364	166
35°	325	325	330	333	333	203
45°	278	281	286	322	335	215
55°	222	224	263	278	278	198
65°	157	165	188	191	191	155
75°	88	103	103	106	106	93
85°	26	41	36	34	31	27
90°	5	16	13	3	3	5
95°	21	103	124	26	26	26
105°	114	366	554	640	691	121
115°	235	495	779	964	1024	234
125°	353	572	854	1039	1091	316
135°	456	629	854	1021	1065	352
145°	534	645	828	949	980	334
155°	588	629	779	864	879	271
165°	634	632	691	750	761	178
175°	650	642	640	640	634	62
180°	645	645	645	645	645	



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CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	389.4	389.4	389.4	389.4	389.4
2.5°	394.5	389.4	392.0	389.4	384.2
5°	394.5	389.4	392.0	389.4	386.8
7.5°	392.0	389.4	389.4	386.8	386.8
10°	392.0	386.8	389.4	386.8	384.2
12.5°	386.8	384.2	386.8	384.2	384.2
15°	381.6	379.1	381.6	381.6	381.6
17.5°	379.1	373.9	379.1	379.1	376.5
20°	371.3	368.8	373.9	373.9	373.9
22.5°	366.2	363.6	368.8	368.8	368.8
25°	361.0	355.9	363.6	363.6	363.6
27.5°	350.7	350.7	355.9	358.4	355.9
30°	343.0	340.4	348.1	350.7	348.1
32.5°	335.2	332.7	340.4	343.0	340.4
35°	324.9	324.9	330.1	332.7	332.7
37.5°	314.6	314.6	319.8	322.3	332.7
40°	304.3	304.3	309.4	324.9	335.2
42.5°	291.4	291.4	299.1	322.3	335.2
45°	278.5	281.1	286.2	322.3	335.2
47.5°	265.6	268.2	281.1	319.8	330.1
50°	250.1	255.3	275.9	312.0	319.8
52.5°	237.2	239.8	268.2	299.1	299.1
55°	221.8	224.3	263.0	278.5	278.5
57.5°	206.3	208.9	250.1	255.3	255.3
60°	190.8	193.4	234.7	234.7	234.7
62.5°	172.8	177.9	211.5	214.0	214.0
65°	157.3	165.0	188.2	190.8	190.8
67.5°	139.2	152.1	167.6	170.2	170.2
70°	123.8	139.2	144.4	147.0	147.0
72.5°	105.7	121.2	123.8	126.4	126.4
75°	87.7	103.1	103.1	105.7	105.7
77.5°	69.6	82.5	85.1	85.1	85.1
80°	54.2	61.9	67.0	64.5	64.5
82.5°	38.7	49.0	49.0	49.0	46.4
85°	25.8	41.3	36.1	33.5	30.9
87.5°	15.5	36.1	20.6	18.1	18.1
90°	5.2	15.5	12.9	2.6	2.6
92.5°	10.3	25.8	12.9	10.3	7.7
95°	20.6	103.1	123.8	25.8	25.8
97.5°	38.7	172.8	265.6	314.6	337.8
100°	59.3	257.9	355.9	435.8	464.2
102.5°	85.1	312.0	438.4	538.9	580.2
105°	113.5	366.2	554.4	639.5	691.1
107.5°	141.8	407.4	644.7	740.1	776.2
110°	175.4	441.0	701.4	866.4	876.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	466.7	732.3	928.3	985.1
115°	234.7	495.1	778.8	964.4	1023.7
117.5°	268.2	515.7	807.1	985.1	1049.5
120°	299.1	533.8	827.8	1010.8	1057.3
122.5°	327.5	554.4	843.2	1031.5	1083.0
125°	353.3	572.5	853.5	1039.2	1090.8
127.5°	379.1	587.9	856.1	1041.8	1095.9
130°	407.4	603.4	861.3	1039.2	1093.4
132.5°	435.8	618.9	858.7	1031.5	1080.5
135°	456.4	629.2	853.5	1021.2	1065.0
137.5°	477.1	636.9	848.4	1005.7	1046.9
140°	495.1	642.1	840.7	987.6	1026.3
142.5°	515.7	644.7	835.5	969.6	1003.1
145°	533.8	644.7	827.8	949.0	979.9
147.5°	551.8	642.1	817.4	928.3	954.1
150°	564.7	636.9	807.1	907.7	928.3
152.5°	575.0	631.8	794.2	884.5	905.1
155°	587.9	629.2	778.8	863.9	879.3
157.5°	598.3	629.2	760.7	840.7	856.1
160°	608.6	629.2	740.1	817.4	830.3
162.5°	621.5	629.2	711.7	783.9	796.8
165°	634.4	631.8	691.1	750.4	760.7
167.5°	642.1	631.8	670.5	709.1	719.5
170°	647.3	636.9	652.4	680.8	683.4
172.5°	649.8	642.1	639.5	652.4	652.4
175°	649.8	642.1	639.5	639.5	634.4
177.5°	649.8	644.7	644.7	642.1	634.4
180°	644.7	644.7	644.7	644.7	644.7

(END OF REPORT)