

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: P253322

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253322
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-50L830-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

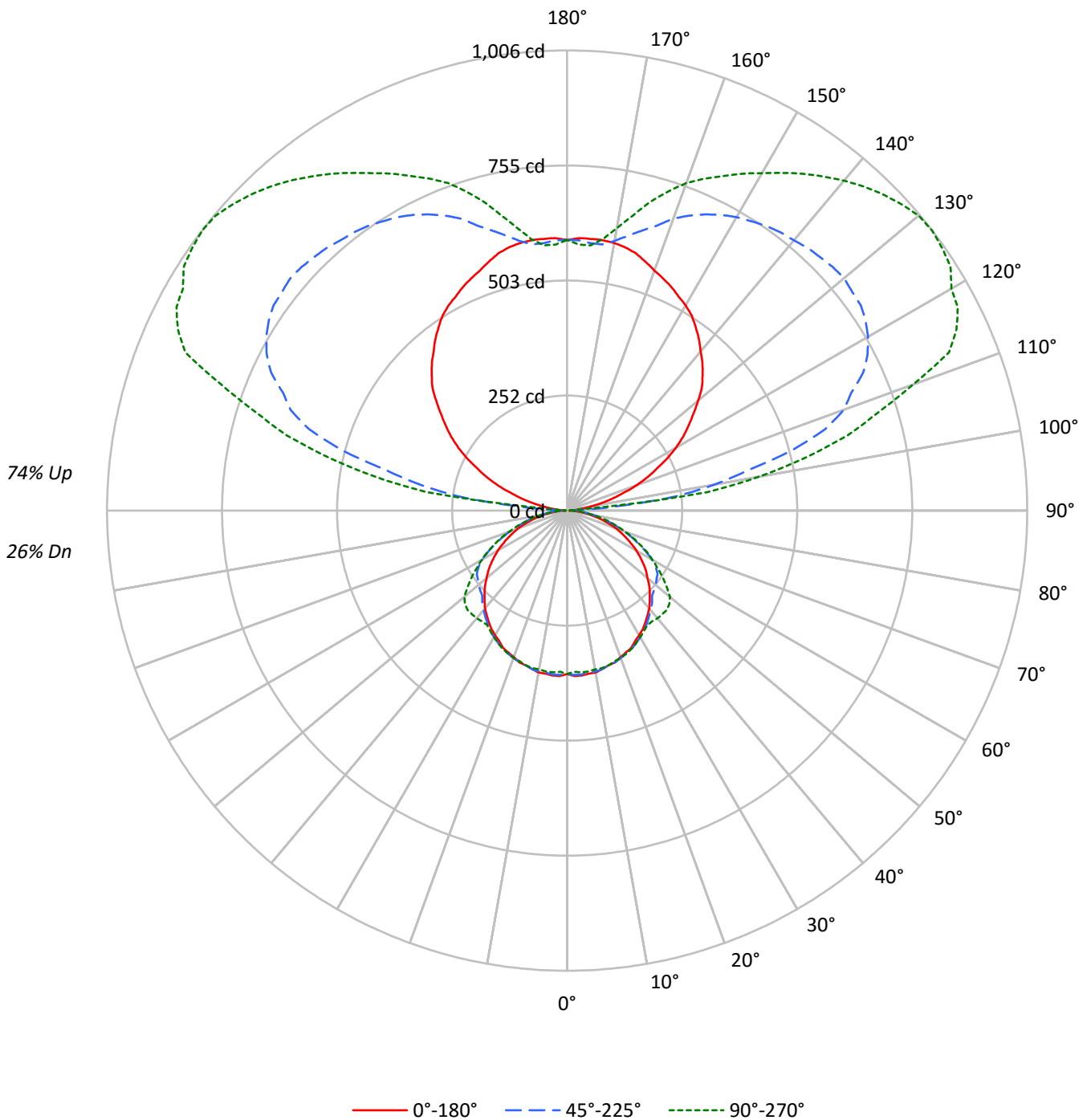
Lumens per Lamp: N/A
Luminaire Lumens: 4674.4 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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



TEST NUMBER: P253322
CATALOG NUMBER: J3-CL-50L830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P253322

CATALOG NUMBER: J3-CL-50L830-1D-UNV-STD-W-4

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°	2884	2884	2884
5°	2934	2914	2876
10°	2948	2928	2890
15°	2926	2926	2926
20°	2927	2947	2947
25°	2950	2972	2972
30°	2933	2977	2977
35°	2938	2984	3008
40°	2942	2992	3242
45°	2917	2998	3512
50°	2882	3179	3685
55°	2864	3396	3596
60°	2827	3476	3476
65°	2756	3299	3345
70°	2681	3127	3182
75°	2508	2951	3026
80°	2311	2859	2748
85°	2195	3066	2631



TEST NUMBER: P253322

CATALOG NUMBER: J3-CL-50L830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	0.7
10°-20°	98.9	2.1
20°-30°	152.8	3.3
30°-40°	189.5	4.1
40°-50°	212.1	4.5
50°-60°	207.2	4.4
60°-70°	163.5	3.5
70°-80°	98.9	2.1
80°-90°	35.2	0.8
90°-100°	121.4	2.6
100°-110°	469.5	10.0
110°-120°	645.3	13.8
120°-130°	652.8	14.0
130°-140°	578.6	12.4
140°-150°	457.6	9.8
150°-160°	319.5	6.8
160°-170°	180.8	3.9
170°-180°	56.7	1.2
0°-30°	285.7	6.1
0°-40°	475.3	10.2
0°-60°	894.6	19.1
0°-90°	1192.2	25.5
90°-120°	1236.2	26.4
90°-150°	2925.2	62.6
90°-180°	3482.0	74.5
0°-180°	4674.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	362	357	360	357	355	34
15°	350	348	350	350	350	99
25°	331	326	334	334	334	152
35°	298	298	303	305	305	187
45°	256	258	263	296	308	197
55°	204	206	241	256	256	182
65°	144	151	173	175	175	142
75°	80	95	95	97	97	85
85°	24	38	33	31	28	25
90°	5	14	12	2	2	5
95°	19	95	114	24	24	23
105°	104	336	509	587	634	111
115°	215	454	714	885	939	215
125°	324	525	783	953	1001	290
135°	419	577	783	937	977	323
145°	490	591	759	871	899	306
155°	539	577	714	792	807	249
165°	582	580	634	688	698	164
175°	596	589	587	587	582	57
180°	591	591	591	591	591	



TEST NUMBER: P253322

CATALOG NUMBER: J3-CL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	357.2	357.2	357.2	357.2	357.2
2.5°	362.0	357.2	359.6	357.2	352.5
5°	362.0	357.2	359.6	357.2	354.9
7.5°	359.6	357.2	357.2	354.9	354.9
10°	359.6	354.9	357.2	354.9	352.5
12.5°	354.9	352.5	354.9	352.5	352.5
15°	350.1	347.8	350.1	350.1	350.1
17.5°	347.8	343.0	347.8	347.8	345.4
20°	340.7	338.3	343.0	343.0	343.0
22.5°	335.9	333.6	338.3	338.3	338.3
25°	331.2	326.5	333.6	333.6	333.6
27.5°	321.7	321.7	326.5	328.8	326.5
30°	314.6	312.3	319.4	321.7	319.4
32.5°	307.6	305.2	312.3	314.6	312.3
35°	298.1	298.1	302.8	305.2	305.2
37.5°	288.6	288.6	293.4	295.7	305.2
40°	279.2	279.2	283.9	298.1	307.6
42.5°	267.3	267.3	274.4	295.7	307.6
45°	255.5	257.9	262.6	295.7	307.6
47.5°	243.7	246.0	257.9	293.4	302.8
50°	229.5	234.2	253.1	286.3	293.4
52.5°	217.7	220.0	246.0	274.4	274.4
55°	203.5	205.8	241.3	255.5	255.5
57.5°	189.3	191.6	229.5	234.2	234.2
60°	175.1	177.4	215.3	215.3	215.3
62.5°	158.5	163.2	194.0	196.4	196.4
65°	144.3	151.4	172.7	175.1	175.1
67.5°	127.8	139.6	153.8	156.1	156.1
70°	113.6	127.8	132.5	134.8	134.8
72.5°	97.0	111.2	113.6	115.9	115.9
75°	80.4	94.6	94.6	97.0	97.0
77.5°	63.9	75.7	78.1	78.1	78.1
80°	49.7	56.8	61.5	59.1	59.1
82.5°	35.5	44.9	44.9	44.9	42.6
85°	23.7	37.9	33.1	30.8	28.4
87.5°	14.2	33.1	18.9	16.6	16.6
90°	4.7	14.2	11.8	2.4	2.4
92.5°	9.5	23.7	11.8	9.5	7.1
95°	18.9	94.6	113.6	23.7	23.7
97.5°	35.5	158.5	243.7	288.6	309.9
100°	54.4	236.6	326.5	399.8	425.8
102.5°	78.1	286.3	402.2	494.4	532.3
105°	104.1	335.9	508.6	586.7	634.0
107.5°	130.1	373.8	591.4	679.0	712.1
110°	160.9	404.5	643.5	794.9	804.4



TEST NUMBER: P253322

CATALOG NUMBER: J3-CL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.3	428.2	671.9	851.7	903.7
115°	215.3	454.2	714.5	884.8	939.2
117.5°	246.0	473.2	740.5	903.7	962.9
120°	274.4	489.7	759.4	927.4	970.0
122.5°	300.5	508.6	773.6	946.3	993.6
125°	324.1	525.2	783.1	953.4	1000.7
127.5°	347.8	539.4	785.4	955.8	1005.5
130°	373.8	553.6	790.2	953.4	1003.1
132.5°	399.8	567.8	787.8	946.3	991.3
135°	418.7	577.2	783.1	936.8	977.1
137.5°	437.7	584.3	778.3	922.7	960.5
140°	454.2	589.1	771.2	906.1	941.6
142.5°	473.2	591.4	766.5	889.5	920.3
145°	489.7	591.4	759.4	870.6	899.0
147.5°	506.3	589.1	749.9	851.7	875.3
150°	518.1	584.3	740.5	832.8	851.7
152.5°	527.6	579.6	728.7	811.5	830.4
155°	539.4	577.2	714.5	792.5	806.7
157.5°	548.9	577.2	697.9	771.2	785.4
160°	558.3	577.2	679.0	749.9	761.8
162.5°	570.2	577.2	653.0	719.2	731.0
165°	582.0	579.6	634.0	688.4	697.9
167.5°	589.1	579.6	615.1	650.6	660.0
170°	593.8	584.3	598.5	624.6	626.9
172.5°	596.2	589.1	586.7	598.5	598.5
175°	596.2	589.1	586.7	586.7	582.0
177.5°	596.2	591.4	591.4	589.1	582.0
180°	591.4	591.4	591.4	591.4	591.4

(END OF REPORT)