

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: P253449

Luminaire Tested: **J3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253449
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 (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: 4798.9 lumens
Efficiency: N/A
Efficacy: 135.2 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

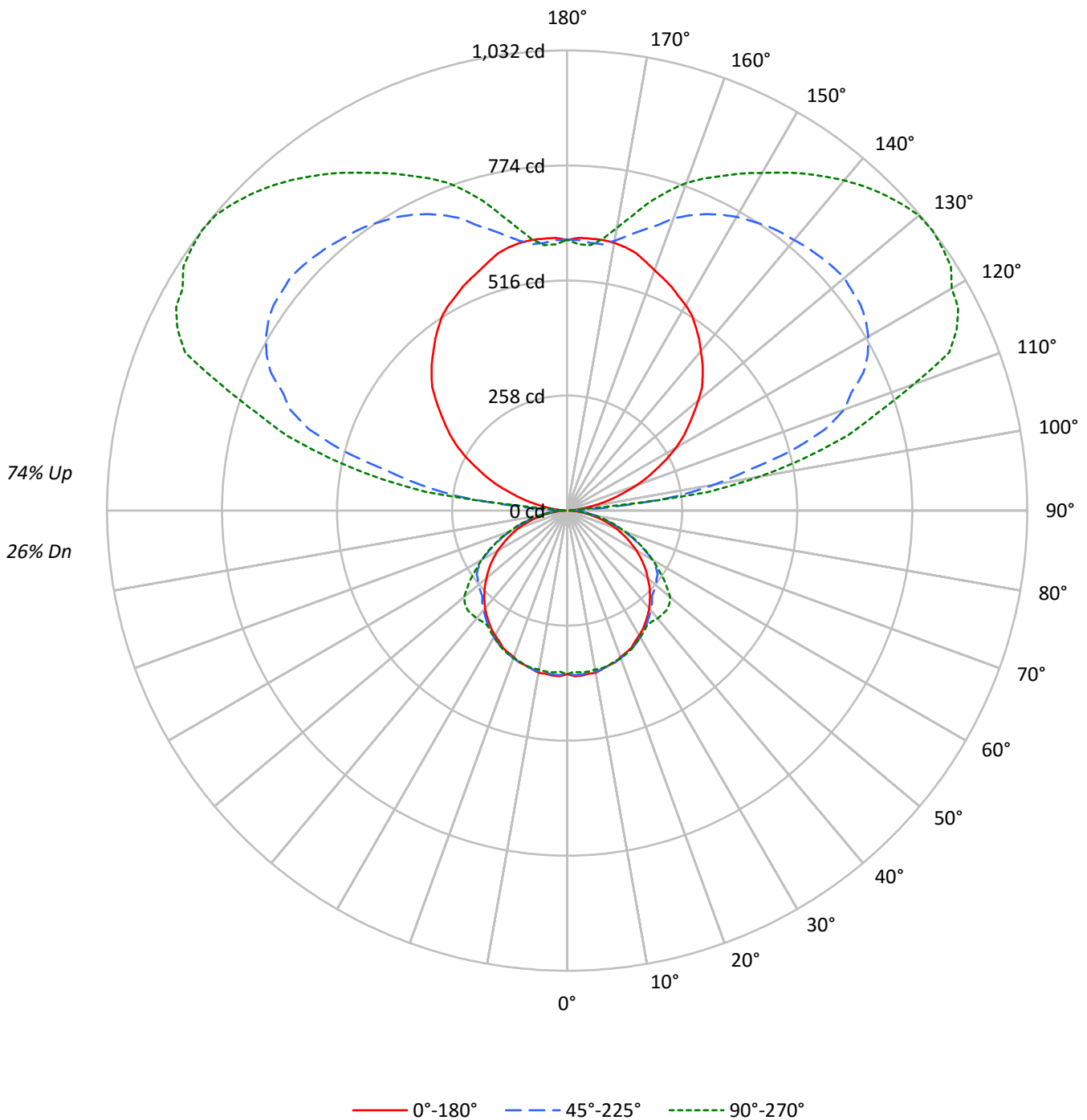
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253449

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253449

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

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°	2960	2960	2960
5°	3011	2992	2952
10°	3027	3006	2967
15°	3005	3005	3005
20°	3004	3026	3026
25°	3029	3051	3051
30°	3011	3057	3057
35°	3016	3064	3088
40°	3020	3072	3327
45°	2995	3078	3604
50°	2959	3264	3783
55°	2940	3486	3692
60°	2901	3568	3568
65°	2831	3387	3433
70°	2752	3210	3267
75°	2576	3032	3107
80°	2371	2934	2822
85°	2251	3149	2695



TEST NUMBER: P253449

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	0.7
10°-20°	101.5	2.1
20°-30°	156.9	3.3
30°-40°	194.6	4.1
40°-50°	217.7	4.5
50°-60°	212.7	4.4
60°-70°	167.9	3.5
70°-80°	101.6	2.1
80°-90°	36.2	0.8
90°-100°	124.7	2.6
100°-110°	482.1	10.0
110°-120°	662.5	13.8
120°-130°	670.2	14.0
130°-140°	594.0	12.4
140°-150°	469.8	9.8
150°-160°	328.0	6.8
160°-170°	185.6	3.9
170°-180°	58.2	1.2
0°-30°	293.3	6.1
0°-40°	487.9	10.2
0°-60°	918.4	19.1
0°-90°	1224.0	25.5
90°-120°	1269.2	26.4
90°-150°	3003.1	62.6
90°-180°	3575.0	74.5
0°-180°	4798.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	367	367	367	367	367	
5°	372	367	369	367	364	35
15°	360	357	360	360	360	102
25°	340	335	342	342	342	156
35°	306	306	311	313	313	192
45°	262	265	270	304	316	202
55°	209	211	248	262	262	187
65°	148	155	177	180	180	146
75°	83	97	97	100	100	87
85°	24	39	34	32	29	25
90°	5	15	12	2	2	5
95°	19	97	117	24	24	24
105°	107	345	522	602	651	114
115°	221	466	734	908	964	220
125°	333	539	804	979	1027	298
135°	430	593	804	962	1003	331
145°	503	607	780	894	923	314
155°	554	593	734	814	828	255
165°	598	595	651	707	716	168
175°	612	605	602	602	598	58
180°	607	607	607	607	607	



TEST NUMBER: P253449

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	366.7	366.7	366.7	366.7	366.7
2.5°	371.6	366.7	369.2	366.7	361.9
5°	371.6	366.7	369.2	366.7	364.3
7.5°	369.2	366.7	366.7	364.3	364.3
10°	369.2	364.3	366.7	364.3	361.9
12.5°	364.3	361.9	364.3	361.9	361.9
15°	359.5	357.0	359.5	359.5	359.5
17.5°	357.0	352.2	357.0	357.0	354.6
20°	349.7	347.3	352.2	352.2	352.2
22.5°	344.9	342.5	347.3	347.3	347.3
25°	340.0	335.2	342.5	342.5	342.5
27.5°	330.3	330.3	335.2	337.6	335.2
30°	323.0	320.6	327.9	330.3	327.9
32.5°	315.7	313.3	320.6	323.0	320.6
35°	306.0	306.0	310.9	313.3	313.3
37.5°	296.3	296.3	301.2	303.6	313.3
40°	286.6	286.6	291.5	306.0	315.7
42.5°	274.5	274.5	281.7	303.6	315.7
45°	262.3	264.7	269.6	303.6	315.7
47.5°	250.2	252.6	264.7	301.2	310.9
50°	235.6	240.4	259.9	293.9	301.2
52.5°	223.4	225.9	252.6	281.7	281.7
55°	208.9	211.3	247.7	262.3	262.3
57.5°	194.3	196.7	235.6	240.4	240.4
60°	179.7	182.2	221.0	221.0	221.0
62.5°	162.7	167.6	199.2	201.6	201.6
65°	148.2	155.4	177.3	179.7	179.7
67.5°	131.2	143.3	157.9	160.3	160.3
70°	116.6	131.2	136.0	138.4	138.4
72.5°	99.6	114.2	116.6	119.0	119.0
75°	82.6	97.2	97.2	99.6	99.6
77.5°	65.6	77.7	80.1	80.1	80.1
80°	51.0	58.3	63.1	60.7	60.7
82.5°	36.4	46.1	46.1	46.1	43.7
85°	24.3	38.9	34.0	31.6	29.1
87.5°	14.6	34.0	19.4	17.0	17.0
90°	4.9	14.6	12.1	2.4	2.4
92.5°	9.7	24.3	12.1	9.7	7.3
95°	19.4	97.2	116.6	24.3	24.3
97.5°	36.4	162.7	250.2	296.3	318.2
100°	55.9	242.9	335.2	410.5	437.2
102.5°	80.1	293.9	412.9	507.6	546.5
105°	106.9	344.9	522.2	602.3	650.9
107.5°	133.6	383.7	607.2	697.1	731.1
110°	165.2	415.3	660.6	816.1	825.8



TEST NUMBER: P253449

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.3	439.6	689.8	874.4	927.8
115°	221.0	466.3	733.5	908.4	964.2
117.5°	252.6	485.8	760.2	927.8	988.5
120°	281.7	502.8	779.6	952.1	995.8
122.5°	308.5	522.2	794.2	971.5	1020.1
125°	332.7	539.2	803.9	978.8	1027.4
127.5°	357.0	553.8	806.4	981.2	1032.2
130°	383.7	568.3	811.2	978.8	1029.8
132.5°	410.5	582.9	808.8	971.5	1017.7
135°	429.9	592.6	803.9	961.8	1003.1
137.5°	449.3	599.9	799.1	947.2	986.1
140°	466.3	604.8	791.8	930.2	966.7
142.5°	485.8	607.2	786.9	913.2	944.8
145°	502.8	607.2	779.6	893.8	922.9
147.5°	519.8	604.8	769.9	874.4	898.6
150°	531.9	599.9	760.2	854.9	874.4
152.5°	541.6	595.0	748.1	833.1	852.5
155°	553.8	592.6	733.5	813.6	828.2
157.5°	563.5	592.6	716.5	791.8	806.4
160°	573.2	592.6	697.1	769.9	782.1
162.5°	585.3	592.6	670.3	738.3	750.5
165°	597.5	595.0	650.9	706.8	716.5
167.5°	604.8	595.0	631.5	667.9	677.6
170°	609.6	599.9	614.5	641.2	643.6
172.5°	612.1	604.8	602.3	614.5	614.5
175°	612.1	604.8	602.3	602.3	597.5
177.5°	612.1	607.2	607.2	604.8	597.5
180°	607.2	607.2	607.2	607.2	607.2

(END OF REPORT)