

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: P253328

Luminaire Tested: **J3-CL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253328  
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-50L835-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

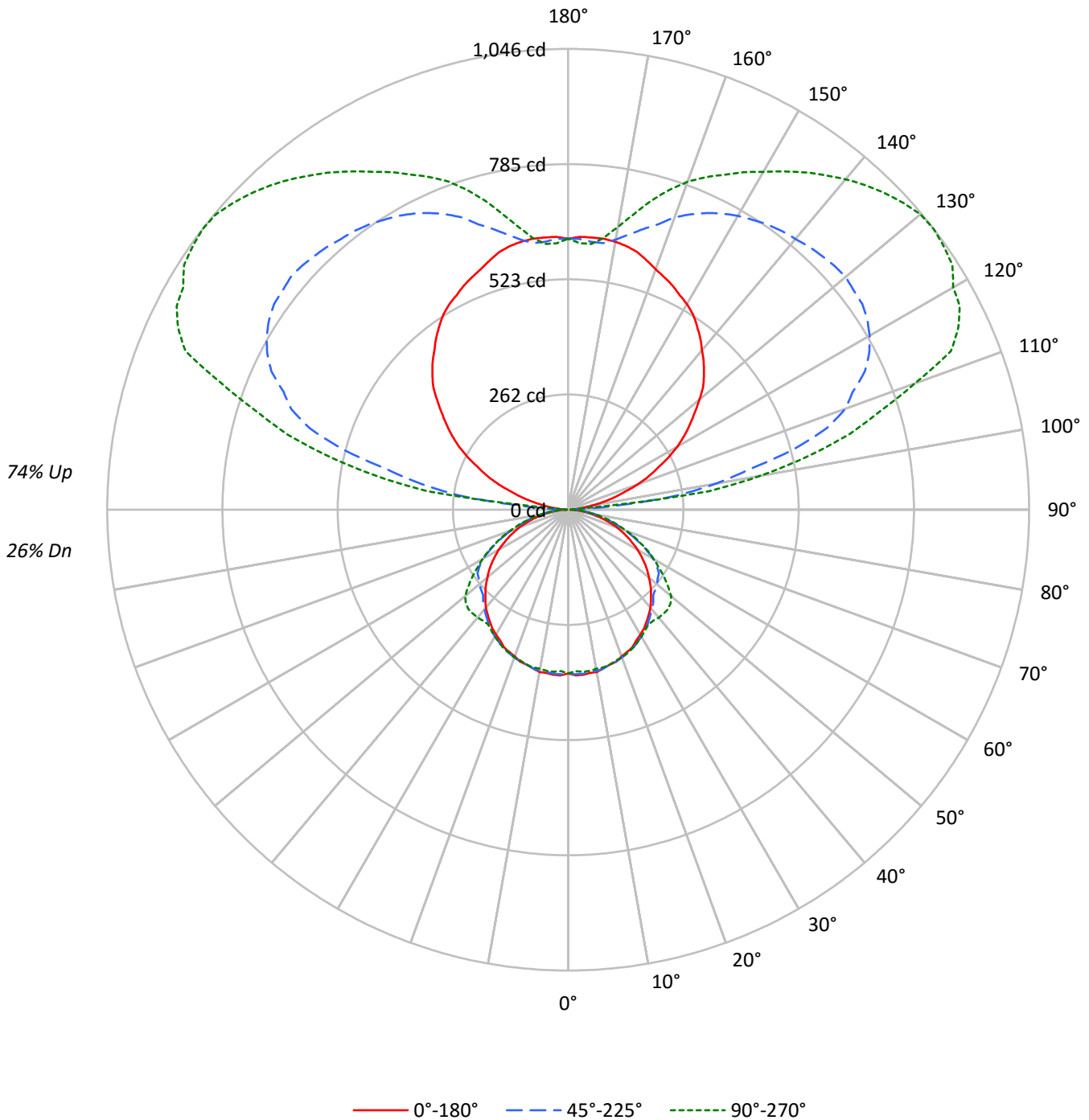
Lumens per Lamp: N/A  
Luminaire Lumens: 4861.4 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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: P253328  
CATALOG NUMBER: J3-CL-50L835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P253328

CATALOG NUMBER: J3-CL-50L835-1D-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°	2999	2999	2999
5°	3050	3031	2991
10°	3066	3045	3005
15°	3043	3043	3043
20°	3044	3065	3065
25°	3069	3090	3090
30°	3050	3097	3097
35°	3055	3103	3128
40°	3059	3111	3371
45°	3033	3118	3652
50°	2998	3307	3832
55°	2978	3533	3740
60°	2940	3615	3615
65°	2867	3431	3479
70°	2788	3253	3309
75°	2611	3069	3147
80°	2404	2975	2859
85°	2279	3186	2732



TEST NUMBER: P253328

CATALOG NUMBER: J3-CL-50L835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.4	0.7
10°-20°	102.8	2.1
20°-30°	158.9	3.3
30°-40°	197.1	4.1
40°-50°	220.6	4.5
50°-60°	215.5	4.4
60°-70°	170.0	3.5
70°-80°	102.9	2.1
80°-90°	36.6	0.8
90°-100°	126.3	2.6
100°-110°	488.3	10.0
110°-120°	671.1	13.8
120°-130°	678.9	14.0
130°-140°	601.7	12.4
140°-150°	475.9	9.8
150°-160°	332.3	6.8
160°-170°	188.0	3.9
170°-180°	58.9	1.2
0°-30°	297.2	6.1
0°-40°	494.3	10.2
0°-60°	930.4	19.1
0°-90°	1239.9	25.5
90°-120°	1285.7	26.4
90°-150°	3042.2	62.6
90°-180°	3621.0	74.5
0°-180°	4861.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	376	372	374	372	369	36
15°	364	362	364	364	364	103
25°	344	340	347	347	347	158
35°	310	310	315	317	317	194
45°	266	268	273	308	320	205
55°	212	214	251	266	266	189
65°	150	158	180	182	182	148
75°	84	98	98	101	101	89
85°	25	39	34	32	30	26
90°	5	15	12	2	2	5
95°	20	98	118	25	25	24
105°	108	349	529	610	659	115
115°	224	472	743	920	977	223
125°	337	546	814	992	1041	302
135°	436	600	814	974	1016	335
145°	509	615	790	905	935	319
155°	561	600	743	824	839	259
165°	605	603	659	716	726	170
175°	620	613	610	610	605	59
180°	615	615	615	615	615	



TEST NUMBER: P253328

CATALOG NUMBER: J3-CL-50L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	371.5	371.5	371.5	371.5	371.5
2.5°	376.4	371.5	374.0	371.5	366.6
5°	376.4	371.5	374.0	371.5	369.1
7.5°	374.0	371.5	371.5	369.1	369.1
10°	374.0	369.1	371.5	369.1	366.6
12.5°	369.1	366.6	369.1	366.6	366.6
15°	364.1	361.7	364.1	364.1	364.1
17.5°	361.7	356.8	361.7	361.7	359.2
20°	354.3	351.8	356.8	356.8	356.8
22.5°	349.4	346.9	351.8	351.8	351.8
25°	344.5	339.5	346.9	346.9	346.9
27.5°	334.6	334.6	339.5	342.0	339.5
30°	327.2	324.8	332.2	334.6	332.2
32.5°	319.9	317.4	324.8	327.2	324.8
35°	310.0	310.0	314.9	317.4	317.4
37.5°	300.2	300.2	305.1	307.6	317.4
40°	290.3	290.3	295.2	310.0	319.9
42.5°	278.0	278.0	285.4	307.6	319.9
45°	265.7	268.2	273.1	307.6	319.9
47.5°	253.4	255.9	268.2	305.1	314.9
50°	238.7	243.6	263.3	297.7	305.1
52.5°	226.4	228.8	255.9	285.4	285.4
55°	211.6	214.1	251.0	265.7	265.7
57.5°	196.8	199.3	238.7	243.6	243.6
60°	182.1	184.5	223.9	223.9	223.9
62.5°	164.8	169.8	201.8	204.2	204.2
65°	150.1	157.5	179.6	182.1	182.1
67.5°	132.9	145.2	159.9	162.4	162.4
70°	118.1	132.9	137.8	140.2	140.2
72.5°	100.9	115.6	118.1	120.6	120.6
75°	83.7	98.4	98.4	100.9	100.9
77.5°	66.4	78.7	81.2	81.2	81.2
80°	51.7	59.0	64.0	61.5	61.5
82.5°	36.9	46.7	46.7	46.7	44.3
85°	24.6	39.4	34.4	32.0	29.5
87.5°	14.8	34.4	19.7	17.2	17.2
90°	4.9	14.8	12.3	2.5	2.5
92.5°	9.8	24.6	12.3	9.8	7.4
95°	19.7	98.4	118.1	24.6	24.6
97.5°	36.9	164.8	253.4	300.2	322.3
100°	56.6	246.0	339.5	415.8	442.9
102.5°	81.2	297.7	418.3	514.2	553.6
105°	108.3	349.4	529.0	610.2	659.4
107.5°	135.3	388.7	615.1	706.1	740.6
110°	167.3	420.7	669.2	826.7	836.5



TEST NUMBER: P253328

CATALOG NUMBER: J3-CL-50L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	196.8	445.3	698.8	885.7	939.9
115°	223.9	472.4	743.0	920.2	976.8
117.5°	255.9	492.1	770.1	939.9	1001.4
120°	285.4	509.3	789.8	964.5	1008.8
122.5°	312.5	529.0	804.6	984.2	1033.4
125°	337.1	546.2	814.4	991.5	1040.7
127.5°	361.7	561.0	816.9	994.0	1045.7
130°	388.7	575.7	821.8	991.5	1043.2
132.5°	415.8	590.5	819.3	984.2	1030.9
135°	435.5	600.3	814.4	974.3	1016.1
137.5°	455.2	607.7	809.5	959.6	998.9
140°	472.4	612.6	802.1	942.3	979.2
142.5°	492.1	615.1	797.2	925.1	957.1
145°	509.3	615.1	789.8	905.4	935.0
147.5°	526.5	612.6	779.9	885.7	910.3
150°	538.8	607.7	770.1	866.1	885.7
152.5°	548.7	602.8	757.8	843.9	863.6
155°	561.0	600.3	743.0	824.2	839.0
157.5°	570.8	600.3	725.8	802.1	816.9
160°	580.7	600.3	706.1	779.9	792.2
162.5°	593.0	600.3	679.1	748.0	760.3
165°	605.3	602.8	659.4	716.0	725.8
167.5°	612.6	602.8	639.7	676.6	686.5
170°	617.6	607.7	622.5	649.5	652.0
172.5°	620.0	612.6	610.2	622.5	622.5
175°	620.0	612.6	610.2	610.2	605.3
177.5°	620.0	615.1	615.1	612.6	605.3
180°	615.1	615.1	615.1	615.1	615.1

(END OF REPORT)