

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: METALUX

Report Number: P600862

Luminaire Tested: **4SLSTPSLC-UNV-LO-3500K**

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (220317012-01-002)
Test Lab: INNOVATION CENTER
Issue Date: 7/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLSTPSLC-UNV-LO-3500K
Description: G3 4ft 4SLSTPSLC-UNV 18W at 3500K
Light Source: -
Ballast/Driver: -

Summary

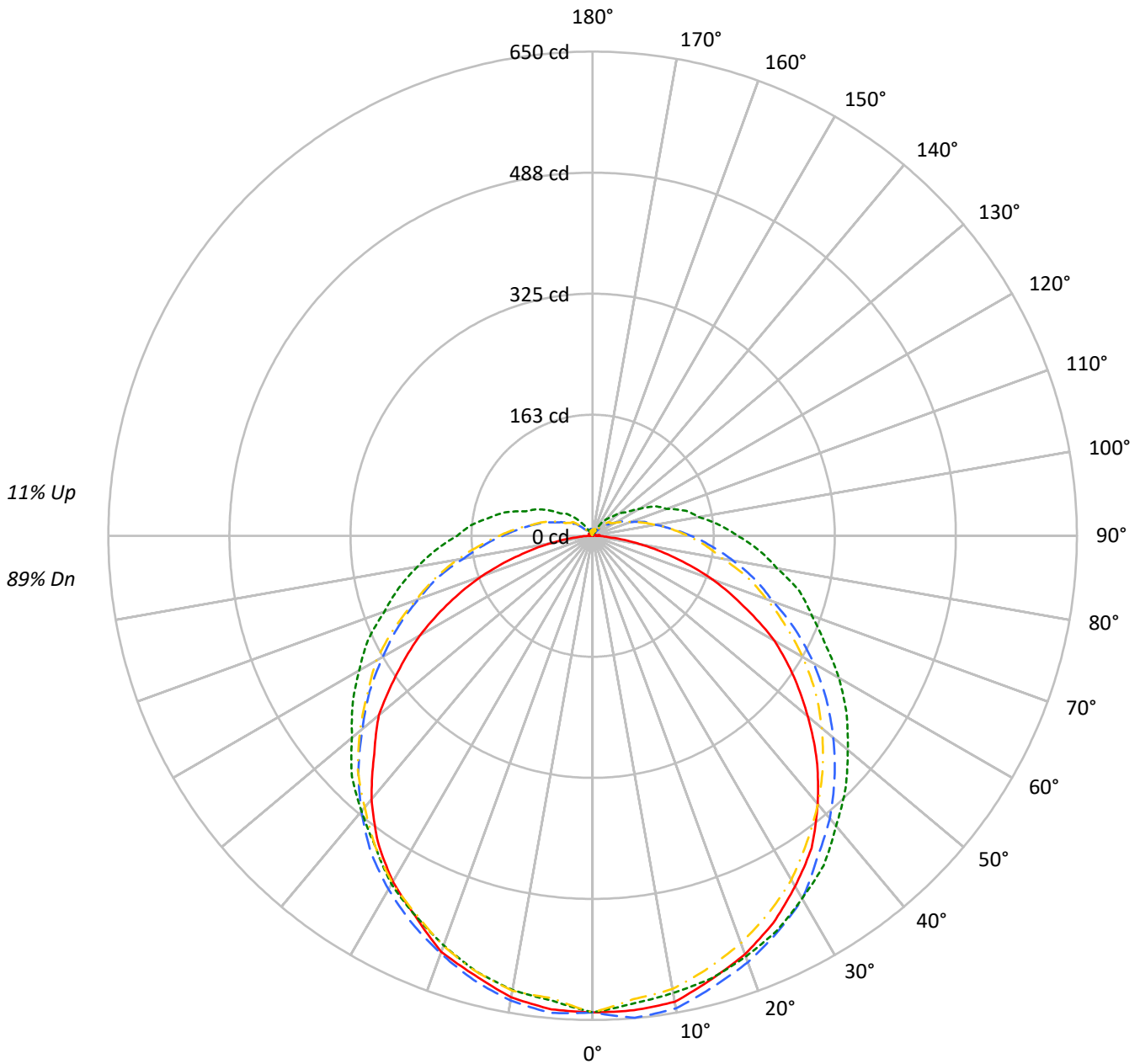
Lumens per Lamp: N/A
Luminaire Lumens: 2416.2 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.22' x L: 4' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 18.2
Input Voltage (V): NR
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

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CATALOG NUMBER: 4SLSTPSLC-UNV-LO-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	104	98	93	88	100	95	90	86	88	85	81	83	80	77	77	75	73	70																			
2	94	84	77	70	90	82	75	69	76	70	65	71	66	62	66	63	59	56																			
3	85	73	65	58	81	71	63	56	66	60	54	62	56	52	58	53	49	47																			
4	77	65	55	48	74	63	54	47	59	51	45	55	49	44	52	46	42	39																			
5	71	58	48	41	68	56	47	40	52	45	39	49	43	38	46	41	36	34																			
6	65	52	42	36	63	50	41	35	47	40	34	44	38	33	42	36	32	29																			
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26																			
8	56	42	34	28	54	41	33	27	39	32	27	37	30	26	35	29	25	23																			
9	53	39	31	25	51	38	30	24	36	29	24	34	28	23	32	27	22	20																			
10	49	36	28	22	47	35	27	22	33	26	22	31	25	21	30	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7989	7989	7989	7989
5°	7974	7260	7959	7217
10°	7976	6713	7900	6669
15°	7853	6267	7782	6165
20°	7787	5850	7743	5692
25°	7706	5490	7567	5281
30°	7596	5133	7494	4931
35°	7521	4839	7378	4555
40°	7327	4500	7195	4270
45°	7127	4232	6941	4029
50°	6877	3954	6832	3730
55°	6656	3722	6450	3518
60°	6434	3481	6103	3300
65°	5914	3230	5601	3122
70°	5428	3043	5021	2887
75°	4576	2923	4098	2734
80°	3555	2700	3070	2564
85°	1868	2576	1629	2414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	2.5
10°-20°	173.7	7.2
20°-30°	264.8	11.0
30°-40°	323.8	13.4
40°-50°	345.0	14.3
50°-60°	329.2	13.6
60°-70°	283.3	11.7
70°-80°	218.2	9.0
80°-90°	152.3	6.3
90°-100°	103.7	4.3
100°-110°	69.0	2.9
110°-120°	43.3	1.8
120°-130°	25.7	1.1
130°-140°	13.3	0.6
140°-150°	5.2	0.2
150°-160°	2.9	0.1
160°-170°	1.7	0.1
170°-180°	0.4	0.0
0°-30°	499.0	20.7
0°-40°	822.9	34.1
0°-60°	1497.1	62.0
0°-90°	2150.9	89.0
90°-120°	216.0	8.9
90°-150°	260.3	10.8
90°-180°	265.0	11.0
0°-180°	2416.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	640	640	640	640	640	
5°	639	630	638	626	639	61
15°	616	615	611	605	616	174
25°	574	585	563	563	574	264
35°	512	540	502	509	512	319
45°	426	480	414	457	426	328
55°	329	416	319	393	329	295
65°	223	344	212	333	223	223
75°	114	287	102	269	114	122
85°	21	224	18	210	21	28
90°	5	195	2	182	5	6
95°	9	170	0	164	9	3
105°	1	130	3	122	1	1
115°	2	94	5	84	2	3
125°	3	55	2	52	3	3
135°	4	35	2	34	4	3
145°	4	23	3	3	4	2
155°	2	2	1	5	2	1
165°	3	6	4	8	3	1
175°	4	2	2	5	4	0
180°	4	4	4	4	4	



TEST NUMBER: P600862

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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
5°	639.3	644.8	628.8	649.6	647.5	640.3	630.2	632.9	634.7	624.5	637.5
10°	635.2	634.2	620.7	644.3	639.2	632.9	623.2	628.5	626.0	617.7	631.5
15°	616.4	624.3	613.3	626.7	627.3	625.5	615.2	614.5	612.3	600.8	617.3
20°	597.7	602.3	594.8	609.2	612.8	613.1	601.1	599.1	594.6	581.8	591.9
25°	573.5	577.8	571.4	587.1	588.0	589.7	585.0	572.8	572.9	558.9	565.5
30°	543.4	548.0	542.2	563.1	565.2	564.8	562.3	554.5	550.4	533.4	540.4
35°	512.2	512.9	517.2	526.2	535.5	541.1	540.5	529.6	522.9	501.4	499.9
40°	470.0	472.5	480.8	495.3	502.0	507.5	508.5	502.0	489.5	470.5	464.6
45°	425.5	428.4	444.9	459.3	470.3	481.5	480.1	471.1	460.0	436.9	425.2
50°	376.9	382.8	402.8	421.6	437.3	443.9	447.0	439.5	424.5	401.4	378.1
55°	329.4	334.8	362.3	383.1	399.2	413.7	416.0	404.9	387.7	365.0	334.1
60°	281.8	286.7	312.0	342.4	362.2	380.2	381.6	374.8	347.5	325.2	293.6
65°	223.4	242.5	268.8	301.2	324.1	350.4	344.5	338.5	316.7	285.7	247.5
70°	170.8	189.4	223.1	257.3	293.2	313.0	313.1	308.2	284.7	248.4	209.8
75°	114.0	144.0	184.0	225.2	259.5	280.2	287.4	276.0	246.4	214.9	167.5
80°	64.6	90.6	144.1	190.9	224.5	244.3	251.2	245.5	213.5	176.4	135.5
85°	21.1	62.5	111.1	159.9	196.1	220.3	224.2	211.0	189.7	152.4	100.3
90°	5.1	35.9	84.0	132.0	166.1	188.2	194.7	187.6	163.4	127.5	77.0
95°	9.3	25.5	66.1	105.4	143.3	161.1	170.0	165.6	139.9	105.3	63.5
100°	0.7	10.5	48.6	85.8	120.1	139.3	144.7	143.5	120.4	84.8	46.0
105°	1.1	15.0	33.8	72.1	98.5	122.9	129.7	120.1	98.4	68.3	30.3
110°	2.2	7.8	22.6	52.9	84.2	101.8	105.7	101.4	83.0	54.7	25.8
115°	2.4	6.4	22.7	45.7	64.7	83.1	93.5	78.7	62.4	44.3	23.4
120°	4.0	6.8	17.6	35.3	56.4	59.9	72.2	66.8	51.0	34.4	19.3
125°	3.0	5.8	16.6	27.6	39.8	52.5	54.9	53.1	43.6	29.2	14.0
130°	2.1	6.9	11.1	20.6	36.7	46.7	47.0	43.8	34.8	28.8	7.5
135°	4.0	6.1	8.5	16.5	30.3	34.8	35.1	35.5	29.1	21.2	6.0
140°	4.6	5.7	6.0	8.2	19.7	27.2	29.0	24.8	25.4	12.5	6.7
145°	3.5	6.7	9.8	5.4	10.3	21.2	22.7	23.8	15.8	4.2	8.9
150°	0.0	6.0	11.1	6.8	6.2	4.7	6.9	6.2	3.6	7.8	11.9
155°	2.4	2.1	9.4	6.8	7.5	3.3	1.7	5.5	5.1	8.2	9.3
160°	2.5	2.6	3.6	4.3	7.8	7.9	8.7	12.5	8.0	9.4	3.6
165°	2.8	4.8	3.0	4.0	8.6	4.6	6.4	10.0	6.5	3.6	6.7
170°	2.8	5.3	1.1	1.5	4.3	3.2	7.9	5.1	7.1	4.6	3.2
175°	3.9	5.4	3.9	3.5	7.2	5.8	1.9	0.4	4.2	9.0	0.0
180°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



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CATALOG NUMBER: 4SLSTPSLC-UNV-LO-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
5°	631.4	638.1	643.6	633.5	643.0	644.2	643.3	626.4	634.3	633.1	623.1
10°	628.1	629.1	632.1	621.2	633.6	635.0	636.8	619.1	625.5	627.5	620.2
15°	608.4	610.8	619.8	605.9	617.3	620.5	620.5	605.2	613.3	609.1	605.6
20°	595.7	594.3	598.2	588.0	596.6	597.9	605.4	584.9	598.2	596.9	585.7
25°	566.8	563.2	566.8	566.8	574.0	578.6	584.4	562.7	577.6	573.6	560.5
30°	540.5	536.1	537.3	539.3	548.1	550.6	561.9	540.2	553.4	548.7	537.9
35°	505.3	502.4	501.4	509.6	518.8	520.4	532.2	508.8	525.4	516.5	508.8
40°	461.5	461.5	463.5	475.5	482.7	492.4	505.0	482.5	496.7	487.6	475.8
45°	422.9	414.4	413.5	433.3	444.5	456.5	469.2	457.1	466.0	452.8	445.6
50°	374.0	374.4	366.9	385.7	403.1	420.9	433.4	421.6	431.7	422.6	407.4
55°	325.1	319.2	317.3	344.3	365.5	389.2	397.5	393.2	398.1	392.5	368.7
60°	273.8	267.3	272.3	301.5	324.9	353.2	365.1	361.8	357.5	349.6	334.9
65°	224.5	211.6	223.4	256.7	287.4	315.2	328.4	333.0	327.6	316.2	293.6
70°	169.3	158.0	174.0	209.6	248.4	277.0	292.5	297.1	293.9	278.8	251.9
75°	120.7	102.1	126.9	171.3	214.5	242.1	261.6	268.9	261.2	249.4	218.1
80°	82.3	55.8	84.9	133.6	175.3	211.9	229.9	238.5	231.5	211.7	183.9
85°	52.8	18.4	52.7	99.2	146.6	183.5	201.2	210.1	203.5	186.4	151.9
90°	28.5	2.1	33.8	77.5	120.5	153.1	177.9	181.8	176.5	155.2	125.3
95°	19.7	0.1	19.5	54.3	99.3	132.6	152.3	163.6	156.2	134.1	103.2
100°	12.2	5.0	12.2	43.1	82.2	112.2	129.8	140.2	131.9	111.4	83.1
105°	10.8	2.6	11.4	35.1	66.8	90.9	110.4	121.7	112.9	96.0	70.0
110°	8.0	1.2	5.8	26.0	52.2	80.6	91.3	95.5	94.8	78.3	56.3
115°	6.5	4.6	0.0	23.0	42.8	64.2	73.6	84.0	79.5	62.6	40.2
120°	5.0	5.8	5.4	12.9	31.3	52.2	60.3	68.4	60.3	53.6	34.4
125°	7.6	2.5	9.0	4.0	28.7	45.0	52.2	52.1	52.5	43.4	32.1
130°	4.6	0.7	9.6	2.2	12.7	32.8	41.4	46.0	43.2	35.2	19.0
135°	5.8	2.4	5.7	6.8	5.5	20.6	36.6	34.5	36.7	26.0	3.6
140°	2.4	1.9	6.2	5.7	4.2	3.2	10.1	22.2	13.4	0.4	2.6
145°	8.5	3.3	7.8	10.4	5.4	7.2	5.8	2.8	6.8	0.1	0.8
150°	6.5	0.0	5.3	10.9	6.2	3.0	1.2	1.1	0.0	2.5	5.3
155°	6.0	1.1	9.8	10.3	6.5	12.1	7.5	4.7	7.6	8.7	6.8
160°	6.5	3.2	5.1	9.0	9.6	8.5	10.4	9.1	7.2	8.5	6.9
165°	8.3	3.7	2.6	8.2	7.8	7.8	6.7	8.2	6.0	7.8	2.8
170°	4.6	4.6	7.9	4.6	9.1	7.2	9.0	5.1	5.0	4.3	5.1
175°	3.3	2.1	5.0	3.7	5.4	4.4	6.4	5.3	5.7	4.0	8.2
180°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



TEST NUMBER: P600862

CATALOG NUMBER: 4SLSTPSLC-UNV-LO-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	639.9	639.9	639.9
5°	640.0	634.2	639.3
10°	628.5	628.5	635.2
15°	613.5	618.8	616.4
20°	596.6	598.4	597.7
25°	574.5	574.5	573.5
30°	545.2	546.6	543.4
35°	515.3	513.9	512.2
40°	474.0	475.0	470.0
45°	436.3	437.0	425.5
50°	393.6	389.9	376.9
55°	348.8	342.1	329.4
60°	305.9	287.5	281.8
65°	263.5	238.9	223.4
70°	218.4	191.9	170.8
75°	175.1	136.5	114.0
80°	138.6	95.7	64.6
85°	108.6	56.5	21.1
90°	83.8	36.3	5.1
95°	62.2	18.3	9.3
100°	46.1	11.8	0.7
105°	33.7	10.8	1.1
110°	24.8	6.7	2.2
115°	24.1	7.6	2.4
120°	15.4	6.4	4.0
125°	4.8	9.3	3.0
130°	1.4	2.4	2.1
135°	7.6	5.4	4.0
140°	7.8	5.0	4.6
145°	7.1	8.3	3.5
150°	4.8	7.2	0.0
155°	7.8	5.1	2.4
160°	4.0	3.6	2.5
165°	6.5	5.3	2.8
170°	6.7	3.0	2.8
175°	1.9	2.6	3.9
180°	4.0	4.0	4.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°











(END OF REPORT)