

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: P600863

Luminaire Tested: **4SLSTPSLC-UNV-LO-4000K**

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600863
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-4000K
Description: G3 4ft 4SLSTPSLC-UNV 18W at 4000K
Light Source: -
Ballast/Driver: -

Summary

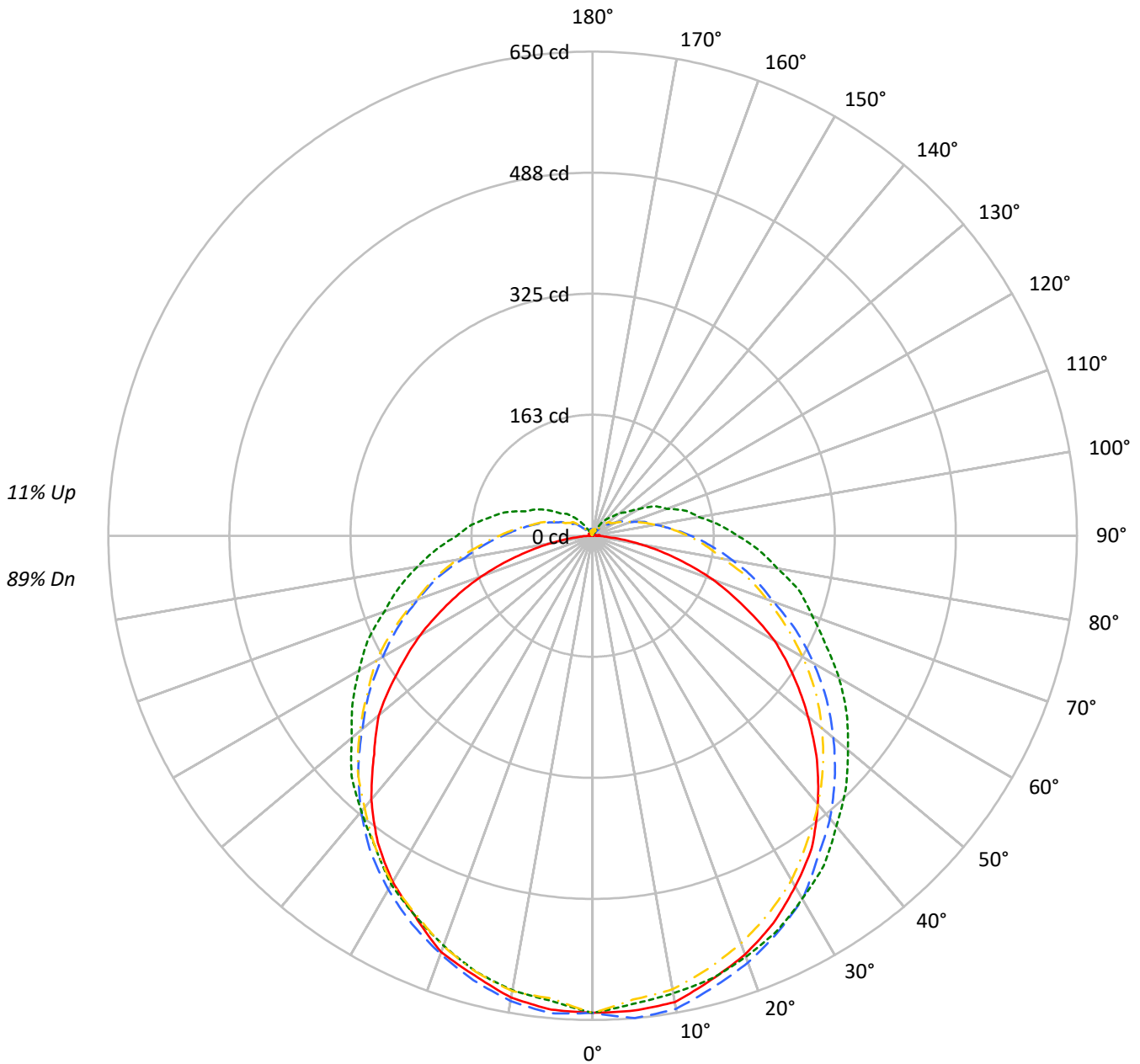
Lumens per Lamp: N/A
Luminaire Lumens: 2418.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.22' x L: 4' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 17.6
Input Voltage (V): NR
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

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CATALOG NUMBER: 4SLSTPSLC-UNV-LO-4000K

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°	7995	7995	7995	7995
5°	7980	7265	7964	7222
10°	7981	6718	7905	6673
15°	7859	6272	7787	6170
20°	7794	5854	7748	5696
25°	7711	5494	7574	5285
30°	7602	5137	7500	4935
35°	7527	4842	7383	4559
40°	7332	4503	7201	4272
45°	7132	4235	6946	4032
50°	6883	3957	6837	3732
55°	6660	3725	6456	3521
60°	6438	3483	6107	3302
65°	5916	3231	5604	3124
70°	5435	3046	5025	2889
75°	4580	2925	4102	2736
80°	3555	2702	3076	2565
85°	1868	2579	1629	2416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	2.5
10°-20°	173.9	7.2
20°-30°	265.0	11.0
30°-40°	324.1	13.4
40°-50°	345.2	14.3
50°-60°	329.5	13.6
60°-70°	283.5	11.7
70°-80°	218.4	9.0
80°-90°	152.4	6.3
90°-100°	103.8	4.3
100°-110°	69.1	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°	499.4	20.7
0°-40°	823.5	34.1
0°-60°	1498.2	62.0
0°-90°	2152.5	89.0
90°-120°	216.2	8.9
90°-150°	260.5	10.8
90°-180°	265.0	11.0
0°-180°	2418.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	640	640	640	640	640	
5°	640	631	638	627	640	61
15°	617	616	611	606	617	174
25°	574	585	564	563	574	264
35°	513	541	503	509	513	320
45°	426	480	415	457	426	328
55°	330	416	320	394	330	295
65°	224	345	212	333	224	223
75°	114	288	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: P600863

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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4
5°	639.8	645.3	629.2	650.0	648.0	640.8	630.6	633.4	635.2	624.9	638.0
10°	635.6	634.7	621.2	644.8	639.6	633.4	623.7	629.0	626.5	618.2	632.0
15°	616.9	624.8	613.7	627.2	627.7	625.9	615.7	615.0	612.7	601.2	617.7
20°	598.2	602.8	595.3	609.7	613.3	613.6	601.5	599.6	595.0	582.2	592.4
25°	573.9	578.2	571.8	587.5	588.5	590.1	585.4	573.2	573.4	559.4	565.9
30°	543.8	548.4	542.6	563.5	565.6	565.2	562.7	554.9	550.8	533.8	540.8
35°	512.6	513.3	517.6	526.6	535.9	541.5	540.9	530.0	523.3	501.8	500.3
40°	470.3	472.8	481.2	495.7	502.4	507.9	508.9	502.4	489.9	470.9	464.9
45°	425.8	428.7	445.2	459.7	470.6	481.9	480.5	471.5	460.4	437.2	425.6
50°	377.2	383.1	403.1	421.9	437.6	444.3	447.3	439.8	424.9	401.7	378.4
55°	329.6	335.0	362.6	383.4	399.5	414.0	416.3	405.2	388.0	365.2	334.3
60°	282.0	286.9	312.3	342.6	362.5	380.5	381.9	375.1	347.8	325.4	293.8
65°	223.5	242.7	269.0	301.5	324.3	350.7	344.7	338.8	317.0	285.9	247.7
70°	171.0	189.6	223.2	257.5	293.4	313.2	313.4	308.4	285.0	248.6	209.9
75°	114.1	144.1	184.1	225.3	259.7	280.4	287.6	276.2	246.5	215.1	167.6
80°	64.6	90.7	144.2	191.1	224.6	244.5	251.4	245.7	213.7	176.5	135.6
85°	21.1	62.5	111.2	160.0	196.2	220.5	224.4	211.2	189.8	152.5	100.4
90°	5.1	35.9	84.0	132.1	166.3	188.3	194.8	187.7	163.5	127.6	77.1
95°	9.3	25.5	66.1	105.5	143.4	161.3	170.1	165.7	140.0	105.4	63.5
100°	0.7	10.5	48.7	85.8	120.2	139.4	144.8	143.7	120.5	84.9	46.0
105°	1.1	15.0	33.8	72.1	98.6	123.0	129.8	120.2	98.4	68.4	30.4
110°	2.2	7.8	22.6	53.0	84.3	101.9	105.8	101.5	83.1	54.8	25.8
115°	2.4	6.4	22.7	45.8	64.8	83.2	93.6	78.8	62.4	44.4	23.4
120°	4.0	6.8	17.6	35.4	56.4	59.9	72.2	66.8	51.0	34.4	19.3
125°	3.1	5.8	16.6	27.6	39.8	52.6	54.9	53.1	43.7	29.3	14.0
130°	2.1	6.9	11.1	20.7	36.7	46.7	47.0	43.8	34.8	28.8	7.5
135°	4.0	6.1	8.5	16.5	30.4	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	4.9	3.1	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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CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4
5°	631.9	638.5	644.1	634.0	643.5	644.6	643.8	626.9	634.8	633.5	623.6
10°	628.6	629.5	632.6	621.6	634.1	635.5	637.3	619.5	625.9	628.0	620.7
15°	608.9	611.2	620.2	606.4	617.7	620.9	620.9	605.7	613.7	609.6	606.1
20°	596.1	594.7	598.6	588.5	597.1	598.3	605.8	585.3	598.6	597.4	586.1
25°	567.3	563.7	567.3	567.3	574.5	579.1	584.9	563.1	578.1	574.1	560.9
30°	540.9	536.5	537.7	539.7	548.5	551.0	562.3	540.6	553.8	549.1	538.3
35°	505.7	502.8	501.8	510.0	519.2	520.8	532.6	509.2	525.8	516.9	509.2
40°	461.9	461.9	463.8	475.9	483.1	492.8	505.4	482.8	497.1	488.0	476.2
45°	423.2	414.7	413.8	433.6	444.8	456.9	469.5	457.4	466.3	453.1	445.9
50°	374.2	374.7	367.2	386.0	403.4	421.3	433.7	421.9	432.1	422.9	407.7
55°	325.3	319.5	317.5	344.6	365.8	389.5	397.8	393.5	398.4	392.8	369.0
60°	274.0	267.5	272.5	301.7	325.2	353.4	365.4	362.0	357.7	349.8	335.1
65°	224.6	211.7	223.5	256.9	287.6	315.5	328.6	333.2	327.8	316.4	293.8
70°	169.4	158.1	174.2	209.8	248.6	277.2	292.7	297.3	294.1	279.0	252.1
75°	120.8	102.2	127.0	171.4	214.6	242.2	261.8	269.1	261.4	249.6	218.3
80°	82.4	55.9	85.0	133.7	175.4	212.0	230.0	238.6	231.7	211.9	184.0
85°	52.8	18.4	52.7	99.3	146.7	183.6	201.3	210.2	203.7	186.5	152.0
90°	28.6	2.1	33.8	77.5	120.6	153.2	178.0	181.9	176.7	155.3	125.4
95°	19.7	0.1	19.6	54.4	99.4	132.7	152.4	163.8	156.3	134.2	103.3
100°	12.2	5.0	12.2	43.1	82.2	112.3	129.9	140.3	132.0	111.5	83.2
105°	10.8	2.6	11.4	35.1	66.8	91.0	110.5	121.7	113.0	96.1	70.0
110°	8.0	1.2	5.8	26.1	52.3	80.7	91.4	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	79.6	62.7	40.2
120°	5.0	5.8	5.4	12.9	31.3	52.3	60.3	68.5	60.3	53.7	34.4
125°	7.6	2.5	9.0	4.0	28.7	45.1	52.3	52.1	52.6	43.4	32.2
130°	4.6	0.7	9.6	2.2	12.8	32.9	41.5	46.0	43.3	35.2	19.0
135°	5.8	2.4	5.7	6.8	5.5	20.7	36.6	34.5	36.7	26.1	3.6
140°	2.4	1.9	6.2	5.7	4.2	3.2	10.1	22.2	13.5	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	11.0	6.2	3.1	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	9.2	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	9.2	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: P600863

CATALOG NUMBER: 4SLSTPSLC-UNV-LO-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	640.4	640.4	640.4
5°	640.5	634.7	639.8
10°	629.0	629.0	635.6
15°	614.0	619.3	616.9
20°	597.1	598.9	598.2
25°	574.9	574.9	573.9
30°	545.6	547.0	543.8
35°	515.7	514.3	512.6
40°	474.4	475.3	470.3
45°	436.6	437.3	425.8
50°	393.9	390.2	377.2
55°	349.0	342.4	329.6
60°	306.2	287.7	282.0
65°	263.7	239.1	223.5
70°	218.5	192.0	171.0
75°	175.3	136.6	114.1
80°	138.7	95.8	64.6
85°	108.7	56.6	21.1
90°	83.9	36.3	5.1
95°	62.3	18.3	9.3
100°	46.2	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°	4.9	9.3	3.1
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°	4.9	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	3.1	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)