

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: P600866

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

Issue Date: 7/7/2022

Test Information

Test Method: LM-79-08
Report Number: P600866
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-MID-4000K
Description: G3 4ft 4SLSTPSLC-UNV 30W at 4000K
Light Source: -
Ballast/Driver: -

Summary

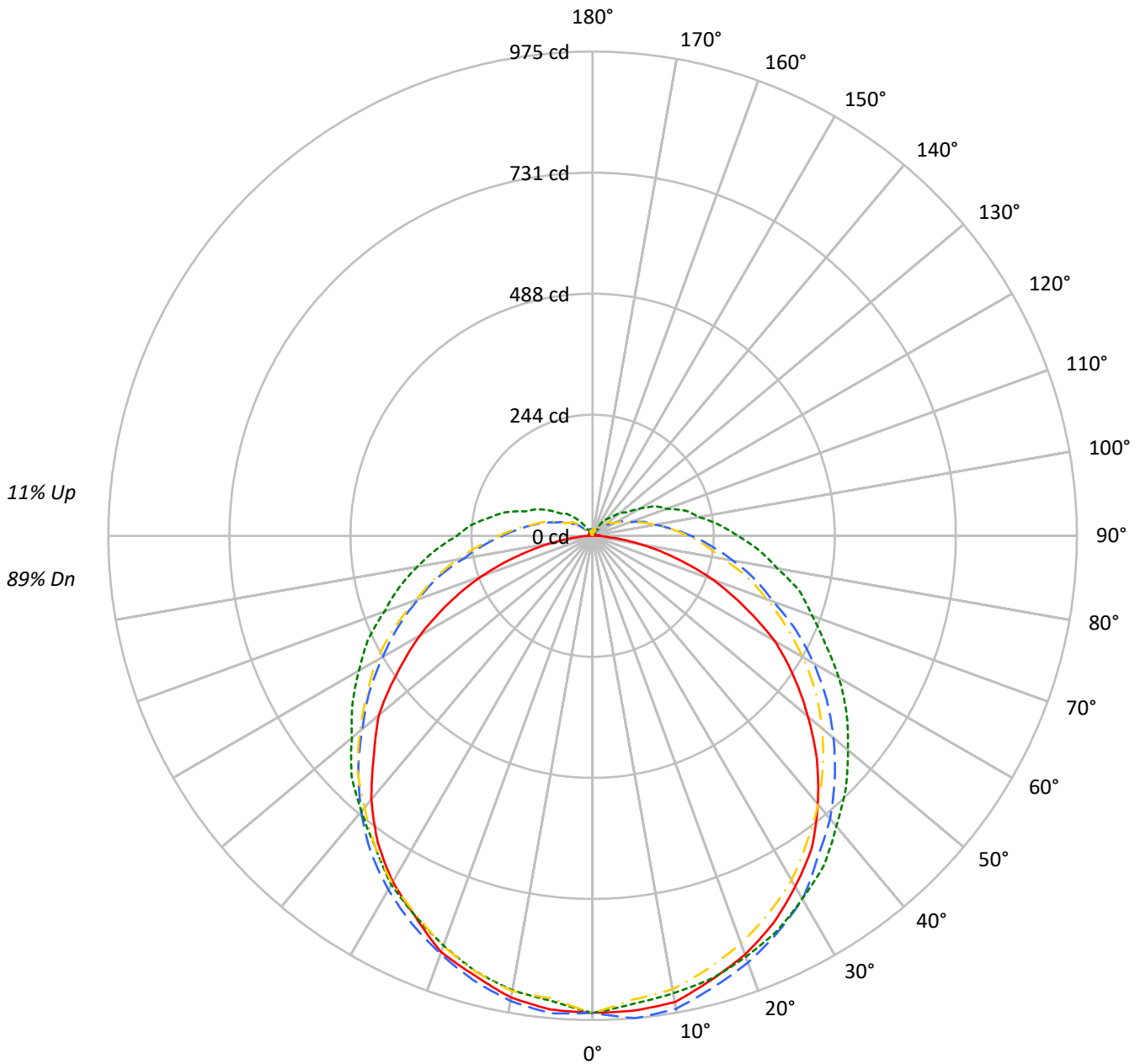
Lumens per Lamp: N/A
Luminaire Lumens: 3627.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.22' x L: 4' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 29.7
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-MID-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°	11992	11992	11992	11992
5°	11970	10899	11947	10833
10°	11972	10078	11858	10010
15°	11790	9407	11680	9255
20°	11691	8781	11623	8544
25°	11567	8241	11360	7928
30°	11403	7705	11249	7404
35°	11292	7264	11075	6838
40°	10999	6754	10801	6409
45°	10698	6352	10420	6048
50°	10322	5936	10255	5599
55°	9990	5587	9683	5282
60°	9660	5225	9160	4954
65°	8876	4848	8407	4685
70°	8152	4569	7535	4333
75°	6872	4387	6153	4105
80°	5332	4053	4611	3848
85°	2798	3867	2453	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	2.5
10°-20°	260.8	7.2
20°-30°	397.4	11.0
30°-40°	486.1	13.4
40°-50°	517.9	14.3
50°-60°	494.2	13.6
60°-70°	425.3	11.7
70°-80°	327.5	9.0
80°-90°	228.7	6.3
90°-100°	155.7	4.3
100°-110°	103.6	2.9
110°-120°	65.0	1.8
120°-130°	38.6	1.1
130°-140°	20.0	0.6
140°-150°	7.9	0.2
150°-160°	4.3	0.1
160°-170°	2.6	0.1
170°-180°	0.7	0.0
0°-30°	749.1	20.7
0°-40°	1235.2	34.1
0°-60°	2247.3	62.0
0°-90°	3228.8	89.0
90°-120°	324.3	8.9
90°-150°	390.7	10.8
90°-180°	398.0	11.0
0°-180°	3627.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	961	961	961	961	961	
5°	960	946	958	940	960	91
15°	925	924	917	908	925	262
25°	861	878	846	845	861	397
35°	769	811	754	764	769	479
45°	639	721	622	686	639	492
55°	494	624	479	590	494	443
65°	335	517	318	500	335	334
75°	171	431	153	404	171	184
85°	32	336	28	315	32	42
90°	8	292	3	273	8	8
95°	14	255	0	246	14	5
105°	2	195	4	183	2	2
115°	4	140	7	126	4	4
125°	5	82	4	78	5	4
135°	6	53	4	52	6	4
145°	5	34	5	4	5	3
155°	4	2	2	7	4	1
165°	4	10	6	12	4	1
175°	6	3	3	8	6	0
180°	6	6	6	6	6	



TEST NUMBER: P600866

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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6
5°	959.7	968.0	943.9	975.1	972.0	961.1	946.0	950.1	952.8	937.4	957.0
10°	953.4	952.0	931.8	967.2	959.5	950.1	935.6	943.5	939.7	927.2	948.0
15°	925.4	937.2	920.6	940.8	941.6	938.9	923.5	922.4	919.1	901.9	926.6
20°	897.3	904.1	892.9	914.5	920.0	920.4	902.3	899.4	892.5	873.4	888.5
25°	860.9	867.3	857.8	881.3	882.7	885.2	878.1	859.8	860.1	839.0	848.8
30°	815.7	822.6	813.9	845.3	848.4	847.8	844.0	832.4	826.1	800.8	811.2
35°	769.0	770.0	776.4	790.0	803.9	812.2	811.4	794.9	785.0	752.7	750.4
40°	705.5	709.3	721.7	743.6	753.6	761.9	763.3	753.6	734.8	706.3	697.4
45°	638.7	643.1	667.9	689.5	705.9	722.8	720.7	707.2	690.5	655.8	638.3
50°	565.7	574.7	604.6	632.9	656.4	666.4	671.0	659.8	637.3	602.6	567.6
55°	494.4	502.5	543.9	575.1	599.2	621.1	624.4	607.8	582.0	547.9	501.5
60°	423.1	430.3	468.4	514.0	543.7	570.7	572.8	562.6	521.6	488.2	440.7
65°	335.3	364.0	403.5	452.2	486.5	526.0	517.1	508.1	475.5	428.9	371.5
70°	256.5	284.3	334.9	386.2	440.1	469.9	470.1	462.6	427.4	372.9	314.9
75°	171.2	216.1	276.2	338.0	389.6	420.6	431.4	414.3	369.8	322.6	251.5
80°	96.9	136.0	216.3	286.6	336.9	366.7	377.1	368.6	320.5	264.8	203.4
85°	31.6	93.8	166.8	240.0	294.3	330.7	336.5	316.8	284.7	228.8	150.6
90°	7.7	53.9	126.0	198.2	249.4	282.5	292.2	281.6	245.2	191.4	115.6
95°	13.9	38.3	99.2	158.3	215.1	241.9	255.2	248.6	210.1	158.1	95.3
100°	1.0	15.8	73.0	128.7	180.3	209.0	217.1	215.5	180.7	127.3	69.1
105°	1.7	22.5	50.8	108.2	147.9	184.5	194.7	180.3	147.7	102.5	45.6
110°	3.3	11.6	33.9	79.5	126.5	152.9	158.7	152.3	124.6	82.2	38.7
115°	3.5	9.6	34.1	68.6	97.1	124.8	140.4	118.1	93.6	66.6	35.2
120°	6.0	10.2	26.4	53.0	84.7	89.9	108.4	100.3	76.5	51.6	28.9
125°	4.6	8.7	25.0	41.4	59.7	78.8	82.4	79.7	65.5	43.9	21.0
130°	3.1	10.4	16.6	31.0	55.1	70.1	70.5	65.7	52.2	43.3	11.2
135°	6.0	9.2	12.7	24.8	45.6	52.2	52.6	53.2	43.7	31.8	8.9
140°	6.9	8.5	8.9	12.3	29.5	40.8	43.5	37.2	38.1	18.7	10.0
145°	5.2	10.0	14.8	8.1	15.4	31.8	34.1	35.8	23.7	6.2	13.3
150°	0.0	8.9	16.6	10.2	9.4	7.1	10.4	9.4	5.4	11.6	17.9
155°	3.5	3.1	14.1	10.2	11.2	5.0	2.5	8.3	7.7	12.3	13.9
160°	3.7	4.0	5.4	6.4	11.6	11.9	13.1	18.7	12.1	14.1	5.4
165°	4.2	7.3	4.6	6.0	12.9	6.9	9.6	15.0	9.8	5.4	10.0
170°	4.2	7.9	1.7	2.3	6.4	4.8	11.9	7.7	10.6	6.9	4.8
175°	5.8	8.1	5.8	5.2	10.8	8.7	2.9	0.6	6.2	13.5	0.0
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



TEST NUMBER: P600866

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6	960.6
5°	947.8	957.8	966.1	950.9	965.3	967.0	965.7	940.3	952.2	950.3	935.3
10°	942.8	944.3	948.9	932.4	951.2	953.2	955.9	929.3	938.9	942.0	931.0
15°	913.3	916.8	930.4	909.6	926.6	931.4	931.4	908.5	920.6	914.3	909.1
20°	894.2	892.1	897.9	882.7	895.6	897.5	908.7	877.9	897.9	896.0	879.2
25°	850.9	845.5	850.9	850.9	861.7	868.6	877.3	844.7	867.1	861.1	841.3
30°	811.4	804.7	806.6	809.5	822.8	826.6	843.4	811.0	830.7	823.7	807.4
35°	758.6	754.2	752.7	765.0	778.7	781.2	798.9	763.8	788.7	775.4	763.8
40°	692.8	692.8	695.7	713.8	724.6	739.2	758.1	724.2	745.7	731.9	714.2
45°	634.8	622.1	620.7	650.4	667.2	685.3	704.3	686.2	699.5	679.7	668.9
50°	561.4	562.0	550.8	579.1	605.1	631.9	650.6	632.9	648.1	634.4	611.5
55°	488.0	479.2	476.3	516.9	548.7	584.3	596.7	590.3	597.6	589.2	553.5
60°	411.0	401.2	408.7	452.6	487.7	530.2	548.1	543.1	536.6	524.8	502.7
65°	336.9	317.6	335.3	385.4	431.4	473.2	492.9	499.8	491.7	474.6	440.7
70°	254.2	237.1	261.2	314.7	372.9	415.8	439.1	445.9	441.2	418.5	378.1
75°	181.2	153.3	190.5	257.1	322.0	363.4	392.7	403.7	392.1	374.4	327.4
80°	123.5	83.8	127.5	200.5	263.1	318.0	345.1	358.0	347.6	317.8	276.0
85°	79.2	27.7	79.0	148.9	220.1	275.4	302.0	315.3	305.5	279.8	228.0
90°	42.8	3.1	50.8	116.3	181.0	229.8	267.1	272.9	265.0	233.0	188.0
95°	29.5	0.2	29.3	81.5	149.1	199.0	228.6	245.6	234.4	201.3	155.0
100°	18.3	7.5	18.3	64.7	123.3	168.5	194.9	210.5	198.0	167.2	124.8
105°	16.2	4.0	17.1	52.6	100.3	136.4	165.8	182.6	169.5	144.1	105.0
110°	12.1	1.9	8.7	39.1	78.4	121.1	137.1	143.3	142.3	117.5	84.4
115°	9.8	6.9	0.0	34.5	64.3	96.3	110.4	126.0	119.4	94.0	60.3
120°	7.5	8.7	8.1	19.3	47.0	78.4	90.5	102.7	90.5	80.5	51.6
125°	11.4	3.7	13.5	6.0	43.1	67.6	78.4	78.2	78.8	65.1	48.3
130°	6.9	1.0	14.4	3.3	19.1	49.3	62.2	69.1	64.9	52.8	28.5
135°	8.7	3.5	8.5	10.2	8.3	31.0	54.9	51.8	55.1	39.1	5.4
140°	3.5	2.9	9.4	8.5	6.2	4.8	15.2	33.3	20.2	0.6	4.0
145°	12.7	5.0	11.6	15.6	8.1	10.8	8.7	4.2	10.2	0.2	1.2
150°	9.8	0.0	7.9	16.4	9.4	4.6	1.9	1.7	0.0	3.7	7.9
155°	8.9	1.7	14.8	15.4	9.8	18.1	11.2	7.1	11.4	13.1	10.2
160°	9.8	4.8	7.7	13.5	14.4	12.7	15.6	13.7	10.8	12.7	10.4
165°	12.5	5.6	4.0	12.3	11.6	11.6	10.0	12.3	8.9	11.6	4.2
170°	6.9	6.9	11.9	6.9	13.7	10.8	13.5	7.7	7.5	6.4	7.7
175°	5.0	3.1	7.5	5.6	8.1	6.7	9.6	7.9	8.5	6.0	12.3
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



TEST NUMBER: P600866

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	960.6	960.6	960.6
5°	960.7	952.0	959.7
10°	943.5	943.5	953.4
15°	921.0	928.9	925.4
20°	895.6	898.3	897.3
25°	862.3	862.3	860.9
30°	818.5	820.5	815.7
35°	773.5	771.4	769.0
40°	711.5	713.0	705.5
45°	655.0	656.0	638.7
50°	590.9	585.3	565.7
55°	523.5	513.5	494.4
60°	459.2	431.6	423.1
65°	395.6	358.6	335.3
70°	327.8	288.1	256.5
75°	262.9	204.9	171.2
80°	208.0	143.7	96.9
85°	163.1	84.9	31.6
90°	125.8	54.5	7.7
95°	93.4	27.5	13.9
100°	69.3	17.7	1.0
105°	50.5	16.2	1.7
110°	37.2	10.0	3.3
115°	36.2	11.4	3.5
120°	23.1	9.6	6.0
125°	7.3	13.9	4.6
130°	2.1	3.5	3.1
135°	11.4	8.1	6.0
140°	11.6	7.5	6.9
145°	10.6	12.5	5.2
150°	7.3	10.8	0.0
155°	11.6	7.7	3.5
160°	6.0	5.4	3.7
165°	9.8	7.9	4.2
170°	10.0	4.6	4.2
175°	2.9	4.0	5.8
180°	5.9	5.9	5.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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











(END OF REPORT)