

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: P588679

Luminaire Tested: **22CGTS-NUV-LOW-4000K**

Issue Date: 12/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P588679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( LCS210329025BSA)  
Test Lab:  
Issue Date: 12/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTS-NUV-LOW-4000K  
Description: 2X2 CGT SELECT TROFFER AT LOW LUMEN OUTPUT AND 4000K COLOR SETTING

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

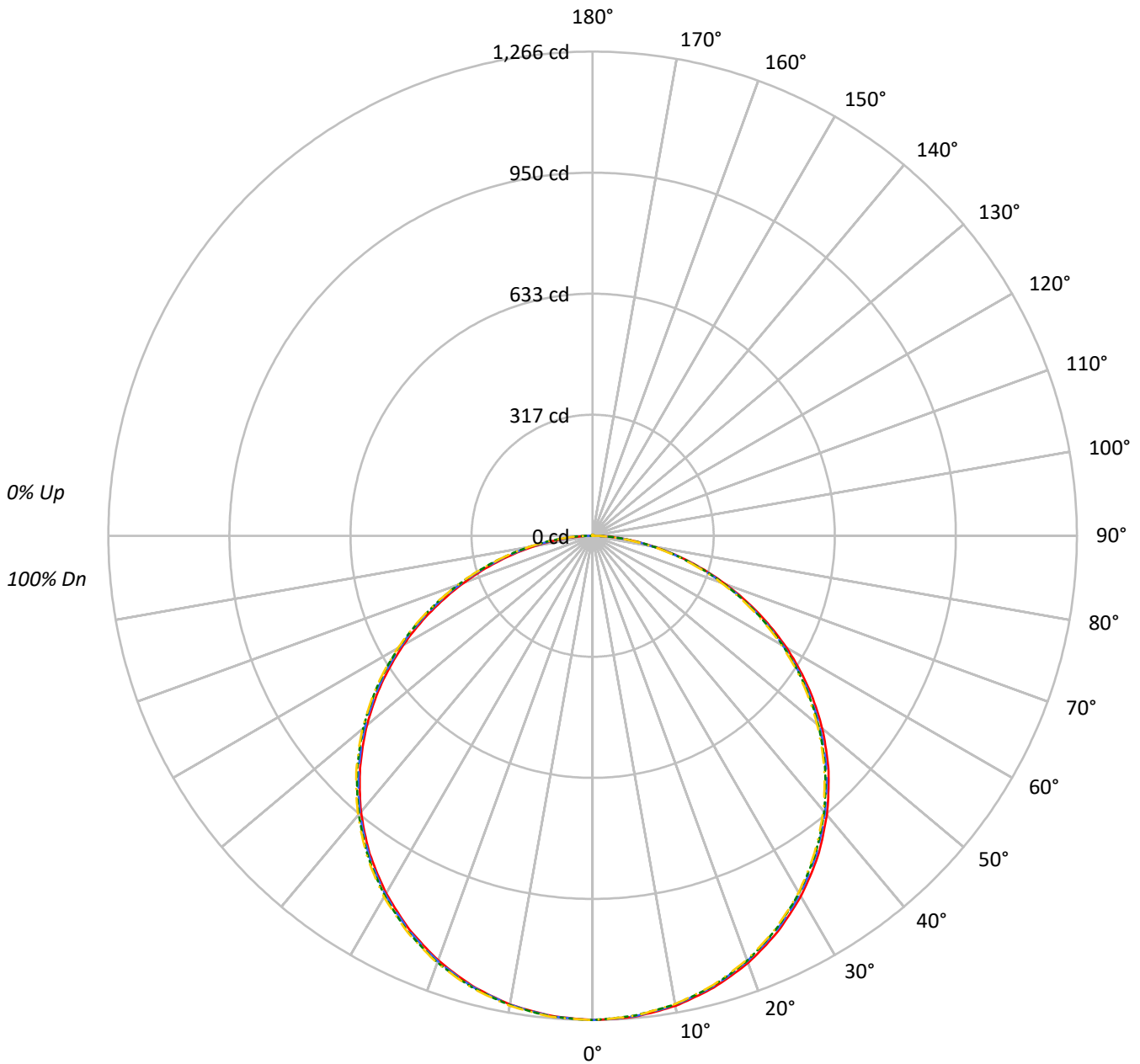
Lumens per Lamp: 3510.7 (1 lamp)  
Luminaire Lumens: 3732.0 lumens  
Efficiency: 106.3%  
Efficacy: 130.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P588679

CATALOG NUMBER: 22CGTS-NUV-LOW-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P588679

CATALOG NUMBER: 22CGTS-NUV-LOW-4000K

**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	127	127	127	127	124	124	124	124	118	118	118	113	113	113	108	108	108	106																			
1	115	110	105	101	112	108	103	99	103	100	96	99	96	93	95	93	90	88																			
2	105	96	88	82	102	94	87	81	90	84	79	86	81	77	83	79	75	73																			
3	95	84	75	68	93	82	74	67	79	72	66	76	70	65	73	68	64	61																			
4	87	74	65	57	85	73	64	57	70	62	56	67	61	55	65	59	55	52																			
5	80	66	56	49	78	65	56	49	63	55	48	60	53	48	58	52	47	45																			
6	74	59	50	43	72	58	49	43	56	48	42	55	47	42	53	47	41	39																			
7	68	54	44	38	67	53	44	38	51	43	37	50	42	37	48	42	37	35																			
8	64	49	40	34	62	48	40	34	47	39	33	46	38	33	44	38	33	31																			
9	59	45	36	30	58	44	36	30	43	35	30	42	35	30	41	34	30	28																			
10	56	42	33	27	54	41	33	27	40	32	27	39	32	27	38	32	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3407	3407	3407	3407
5°	3410	3401	3403	3407
10°	3410	3399	3400	3406
15°	3408	3394	3394	3404
20°	3404	3385	3382	3400
25°	3394	3370	3370	3392
30°	3382	3352	3354	3378
35°	3369	3335	3336	3363
40°	3346	3308	3309	3341
45°	3319	3272	3272	3315
50°	3280	3225	3225	3278
55°	3224	3167	3161	3223
60°	3149	3089	3075	3152
65°	3045	2982	2958	3055
70°	2906	2850	2806	2936
75°	2728	2676	2609	2785
80°	2479	2461	2329	2605
85°	2137	2118	1908	2377



TEST NUMBER: P588679

CATALOG NUMBER: 22CGTS-NUV-LOW-4000K

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	119.9	3.2	3.4	0°	1266	1266	1266	1266	1266	
10°-20°	344.4	9.2	9.8	5°	1262	1259	1260	1261	1262	120
20°-30°	524.9	14.1	15.0	15°	1223	1218	1218	1222	1223	345
30°-40°	637.6	17.1	18.2	25°	1143	1135	1135	1142	1143	527
40°-50°	667.0	17.9	19.0	35°	1025	1015	1016	1024	1025	641
50°-60°	607.5	16.3	17.3	45°	872	860	860	871	872	672
60°-70°	467.5	12.5	13.3	55°	687	675	674	687	687	614
70°-80°	275.5	7.4	7.8	65°	478	468	465	480	478	473
80°-90°	81.5	2.2	2.3	75°	262	257	251	268	262	278
90°-100°	0.9	0.0	0.0	85°	69	69	62	77	69	77
100°-110°	0.6	0.0	0.0	90°	2	0	1	2	2	10
110°-120°	0.7	0.0	0.0	95°	1	0	0	1	1	1
120°-130°	0.7	0.0	0.0	105°	0	1	1	0	0	0
130°-140°	0.8	0.0	0.0	115°	0	1	1	0	0	0
140°-150°	0.9	0.0	0.0	125°	0	1	1	0	0	0
150°-160°	0.8	0.0	0.0	135°	1	2	2	0	1	1
160°-170°	0.6	0.0	0.0	145°	1	2	2	1	1	1
170°-180°	0.2	0.0	0.0	155°	1	2	2	1	1	1
0°-30°	989.2	26.5	28.2	165°	2	3	2	2	2	0
0°-40°	1626.8	43.6	46.3	175°	2	3	2	2	2	0
0°-60°	2901.2	77.7	82.6	180°	2	2	2	2	2	
<b>0°-90°</b>	<b>3725.7</b>	<b>99.8</b>	<b>106.1</b>							
90°-120°	2.2	0.1	0.1							
90°-150°	4.7	0.1	0.1							
<b>90°-180°</b>	<b>6.0</b>	<b>0.2</b>	<b>0.2</b>							
0°-180°	3732.0	100.0	106.3							



TEST NUMBER: P588679

CATALOG NUMBER: 22CGTS-NUV-LOW-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2
5°	1262.4	1261.6	1261.0	1260.8	1259.2	1260.1	1259.7	1259.7	1259.7	1260.4	1260.7
10°	1248.1	1246.4	1244.9	1244.4	1243.8	1243.8	1243.0	1243.4	1244.4	1244.5	1245.1
15°	1223.2	1221.3	1219.4	1218.1	1218.1	1216.9	1216.2	1217.1	1218.3	1219.2	1220.0
20°	1188.6	1186.1	1183.3	1181.6	1182.1	1180.0	1179.3	1180.3	1181.1	1182.7	1183.9
25°	1143.2	1140.8	1138.3	1135.6	1134.9	1133.9	1132.9	1133.4	1134.9	1136.8	1138.4
30°	1088.5	1085.7	1082.9	1080.1	1078.7	1077.4	1076.8	1077.2	1079.3	1081.1	1083.6
35°	1025.4	1021.7	1018.3	1014.0	1015.3	1013.0	1011.5	1012.6	1015.5	1017.4	1019.7
40°	952.4	948.9	944.7	940.8	941.6	939.4	938.3	939.0	942.0	943.5	946.7
45°	872.2	868.0	864.2	859.7	859.7	857.3	855.7	857.2	859.8	862.0	864.8
50°	783.5	778.7	774.5	769.9	770.4	767.7	766.0	767.2	770.3	772.3	776.7
55°	687.1	682.8	678.5	674.2	675.0	672.3	669.7	670.7	673.7	676.2	680.9
60°	585.1	580.4	575.9	571.8	574.0	570.9	568.5	568.3	571.4	574.3	580.1
65°	478.2	474.2	470.0	466.4	468.3	465.7	462.5	461.6	464.6	468.2	474.2
70°	369.4	365.4	362.5	359.2	362.2	359.0	355.9	354.4	356.6	360.7	367.2
75°	262.4	259.3	257.0	254.7	257.4	255.0	251.6	249.6	250.9	255.2	261.9
80°	160.0	157.5	157.5	156.2	158.8	156.2	152.5	149.4	150.3	154.3	161.9
85°	69.2	67.2	66.8	66.6	68.6	66.4	62.4	60.8	61.8	64.8	70.5
90°	1.7	1.4	1.3	1.3	0.5	0.5	0.6	0.6	0.6	0.5	1.1
95°	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5
105°	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.6	0.7	0.7	0.7
110°	0.4	0.4	0.5	0.4	0.8	0.9	1.0	0.8	0.7	0.8	1.0
115°	0.4	0.4	0.5	0.4	1.0	1.1	1.1	0.9	1.0	1.1	1.1
120°	0.4	0.4	0.5	0.4	1.1	1.2	1.2	0.9	1.1	1.1	1.3
125°	0.4	0.4	0.5	0.4	1.1	1.3	1.2	0.9	1.1	1.1	1.3
130°	0.4	0.4	0.5	0.4	1.2	1.6	1.4	1.1	1.2	1.4	1.5
135°	0.6	0.4	0.5	0.4	1.5	1.6	1.5	1.5	1.6	1.7	1.6
140°	1.1	0.8	0.5	0.6	1.6	1.7	1.6	1.6	1.6	1.9	1.8
145°	1.4	1.4	0.7	1.1	1.8	1.8	1.8	1.9	1.8	1.9	1.9
150°	1.4	1.4	1.4	1.4	2.0	2.0	2.1	2.1	1.9	2.1	2.1
155°	1.4	1.4	1.3	1.4	2.2	2.3	2.4	2.3	2.1	2.5	2.4
160°	1.4	1.4	1.3	1.4	2.5	2.6	2.6	2.3	2.5	2.5	2.7
165°	1.8	1.7	1.6	1.5	2.6	2.6	2.7	2.3	2.5	2.5	2.6
170°	2.0	2.0	1.8	2.0	2.7	2.6	2.9	2.3	2.5	2.5	2.7
175°	2.4	2.5	2.2	2.6	2.9	2.6	2.9	2.3	2.5	2.5	2.7
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P588679

CATALOG NUMBER: 22CGTS-NUV-LOW-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2
5°	1261.2	1261.3	1262.7	1262.4	1262.6	1262.4
10°	1246.1	1246.3	1248.0	1247.9	1248.1	1248.1
15°	1221.3	1221.7	1223.5	1223.3	1223.6	1223.2
20°	1186.8	1187.2	1188.9	1188.7	1189.0	1188.6
25°	1141.3	1142.4	1144.5	1144.3	1144.5	1143.2
30°	1086.4	1087.2	1089.7	1090.5	1090.3	1088.5
35°	1022.8	1023.6	1026.2	1026.5	1026.2	1025.4
40°	950.6	951.0	953.6	954.1	953.6	952.4
45°	869.2	871.0	873.1	874.0	873.0	872.2
50°	780.4	782.9	784.4	785.2	784.4	783.5
55°	685.6	687.0	689.3	689.9	688.6	687.1
60°	584.8	585.6	588.1	588.2	586.3	585.1
65°	479.5	479.8	482.9	482.2	480.0	478.2
70°	372.6	373.1	375.6	374.7	371.6	369.4
75°	268.2	267.9	270.2	268.7	265.5	262.4
80°	168.8	168.1	169.9	168.4	163.7	160.0
85°	77.7	77.0	78.5	76.1	72.3	69.2
90°	2.9	2.4	3.3	3.4	2.6	1.7
95°	0.5	0.7	0.7	0.7	0.7	0.7
100°	0.5	0.5	0.6	0.6	0.5	0.4
105°	0.6	0.5	0.5	0.5	0.4	0.4
110°	0.8	0.5	0.5	0.5	0.4	0.4
115°	0.9	0.5	0.5	0.5	0.4	0.4
120°	1.1	0.5	0.5	0.5	0.4	0.4
125°	1.1	0.5	0.5	0.5	0.4	0.4
130°	1.4	0.5	0.5	0.5	0.4	0.4
135°	1.5	0.5	0.5	0.5	0.5	0.6
140°	1.6	1.1	1.1	0.5	1.0	1.1
145°	1.8	1.3	1.4	0.8	1.3	1.4
150°	2.0	1.4	1.4	1.3	1.4	1.4
155°	2.3	1.4	1.4	1.3	1.4	1.4
160°	2.4	1.4	1.4	1.3	1.4	1.4
165°	2.4	1.6	1.6	1.5	1.6	1.8
170°	2.4	1.9	2.0	1.8	1.9	2.0
175°	2.4	2.5	2.7	2.1	2.5	2.4
180°	2.4	2.4	2.4	2.4	2.4	2.4



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)