

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: P588671

Luminaire Tested: **14CGTS-NUV-LOW-5000K**

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: P588671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( LCS210329017BSA)  
Test Lab:  
Issue Date: 12/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CGTS-NUV-LOW-5000K  
Description: 1X4 CGT SELECT TROFFER AT LOW LUMEN OUTPUT AND 5000K COLOR SETTING

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

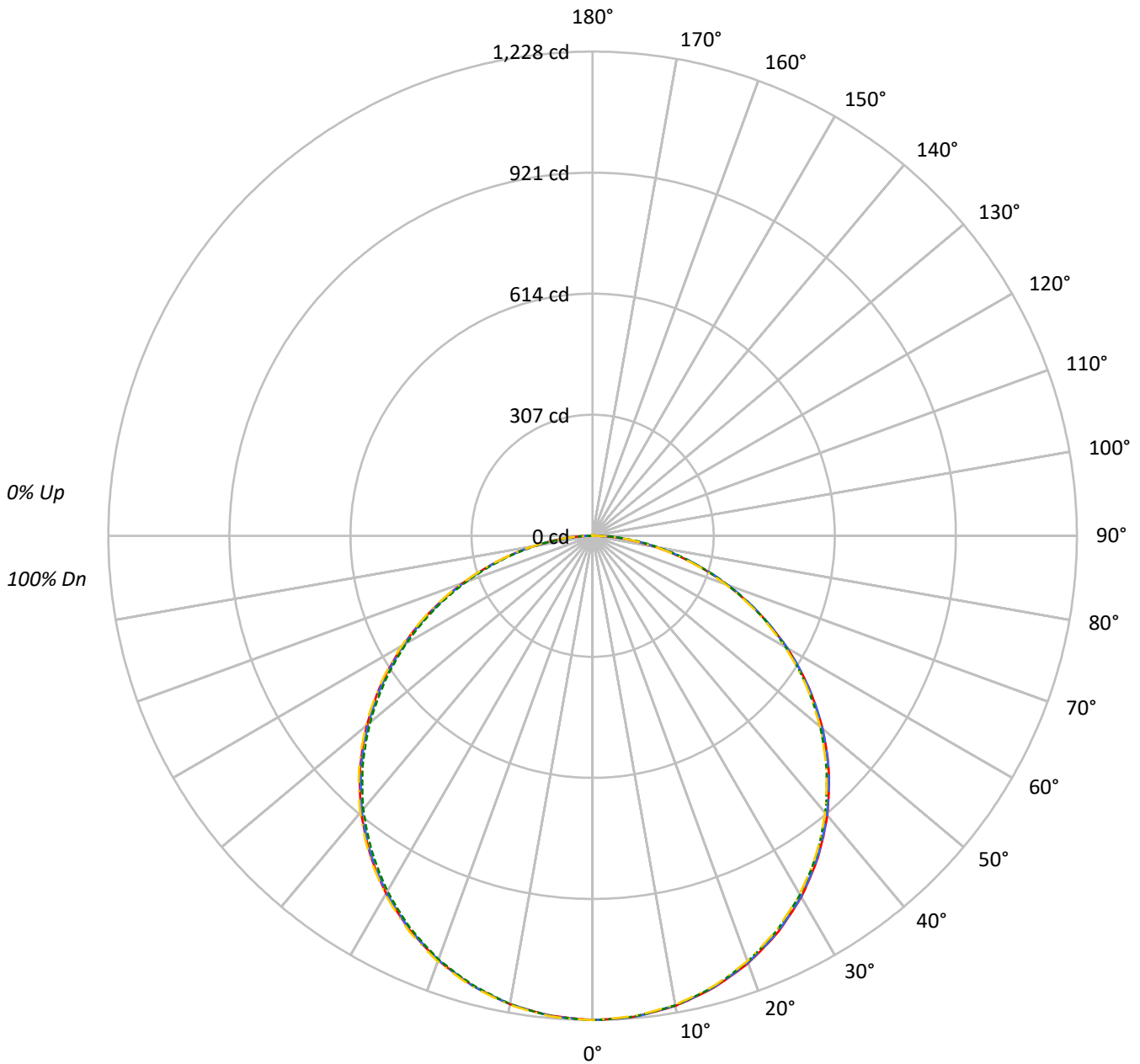
**Summary**

Lumens per Lamp: 3522.2 (1 lamp)  
Luminaire Lumens: 3617.0 lumens  
Efficiency: 102.7%  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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: P588671  
CATALOG NUMBER: 14CGTS-NUV-LOW-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P588671

CATALOG NUMBER: 14CGTS-NUV-LOW-5000K

**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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	105	105	105	103																			
1	111	106	102	98	108	104	100	96	100	96	93	95	93	90	92	89	87	85																			
2	101	92	85	79	98	90	84	78	87	81	76	83	79	75	80	76	73	71																			
3	92	81	72	66	89	79	71	65	76	69	64	73	67	63	71	66	62	59																			
4	84	72	62	55	82	70	62	55	68	60	54	65	59	53	63	57	53	50																			
5	77	64	54	48	75	63	54	47	60	53	47	58	52	46	56	50	46	43																			
6	71	57	48	41	69	56	48	41	55	47	41	53	46	40	51	45	40	38																			
7	66	52	43	37	64	51	43	36	50	42	36	48	41	36	47	40	36	33																			
8	61	47	39	33	60	47	38	32	45	38	32	44	37	32	43	36	32	30																			
9	57	43	35	29	56	43	35	29	42	34	29	41	34	29	39	33	29	27																			
10	54	40	32	26	52	40	32	26	39	31	26	38	31	26	37	30	26	24																			

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

	0°	90°	180°	270°
0°	3305	3305	3305	3305
5°	3307	3305	3300	3303
10°	3308	3304	3296	3295
15°	3306	3300	3290	3284
20°	3303	3290	3280	3273
25°	3297	3280	3269	3256
30°	3287	3266	3255	3233
35°	3273	3250	3235	3208
40°	3251	3224	3209	3177
45°	3225	3193	3173	3138
50°	3187	3154	3127	3082
55°	3135	3104	3067	3013
60°	3064	3041	2985	2930
65°	2970	2961	2881	2819
70°	2847	2864	2742	2676
75°	2687	2739	2561	2497
80°	2470	2596	2318	2263
85°	2195	2485	1995	1877



TEST NUMBER: P588671

CATALOG NUMBER: 14CGTS-NUV-LOW-5000K

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	116.3	3.2	3.3	0°	1228	1228	1228	1228	1228	
10°-20°	333.9	9.2	9.5	5°	1224	1224	1222	1223	1224	116
20°-30°	508.8	14.1	14.4	15°	1187	1184	1181	1179	1187	335
30°-40°	617.7	17.1	17.5	25°	1110	1105	1101	1096	1110	512
40°-50°	645.7	17.9	18.3	35°	996	989	985	976	996	623
50°-60°	587.7	16.2	16.7	45°	847	839	834	824	847	653
60°-70°	452.8	12.5	12.9	55°	668	662	654	642	668	597
70°-80°	267.8	7.4	7.6	65°	466	465	452	443	466	462
80°-90°	80.5	2.2	2.3	75°	258	263	246	240	258	274
90°-100°	0.8	0.0	0.0	85°	71	80	65	61	71	77
100°-110°	0.7	0.0	0.0	90°	2	1	1	1	2	11
110°-120°	0.7	0.0	0.0	95°	1	0	1	1	1	1
120°-130°	0.6	0.0	0.0	105°	1	0	2	0	1	1
130°-140°	0.7	0.0	0.0	115°	1	1	2	0	1	1
140°-150°	0.9	0.0	0.0	125°	0	1	1	0	0	0
150°-160°	0.8	0.0	0.0	135°	0	1	1	0	0	0
160°-170°	0.6	0.0	0.0	145°	1	1	1	1	1	1
170°-180°	0.2	0.0	0.0	155°	1	2	2	1	1	1
0°-30°	959.0	26.5	27.2	165°	2	2	3	2	2	0
0°-40°	1576.7	43.6	44.8	175°	2	3	3	2	2	0
0°-60°	2810.0	77.7	79.8	180°	2	2	2	2	2	
<b>0°-90°</b>	<b>3611.1</b>	<b>99.8</b>	<b>102.5</b>							
90°-120°	2.2	0.1	0.1							
90°-150°	4.3	0.1	0.1							
<b>90°-180°</b>	<b>6.0</b>	<b>0.2</b>	<b>0.2</b>							
0°-180°	3617.0	100.0	102.7							



TEST NUMBER: P588671

CATALOG NUMBER: 14CGTS-NUV-LOW-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
5°	1224.3	1224.7	1224.5	1224.2	1223.5	1223.2	1222.2	1222.2	1221.6	1222.1	1222.0
10°	1210.5	1210.8	1209.4	1209.4	1209.1	1208.3	1207.4	1207.1	1206.4	1205.7	1206.1
15°	1186.6	1187.8	1185.7	1184.5	1184.4	1183.1	1182.5	1182.2	1180.9	1180.7	1180.8
20°	1153.5	1153.6	1152.0	1150.8	1149.0	1148.5	1147.5	1146.5	1145.4	1145.2	1144.6
25°	1110.4	1111.0	1109.2	1107.0	1104.7	1104.3	1103.0	1101.9	1100.9	1100.2	1099.4
30°	1057.9	1058.6	1056.6	1053.3	1051.1	1050.6	1049.6	1048.2	1047.6	1046.2	1045.5
35°	996.2	997.1	994.6	991.1	989.4	988.6	987.6	985.7	984.7	983.7	981.8
40°	925.5	926.4	924.2	920.7	917.9	917.8	917.1	915.0	913.4	912.1	910.3
45°	847.3	849.0	846.6	842.7	839.0	838.1	838.1	835.7	833.8	832.2	830.1
50°	761.2	762.9	760.6	757.2	753.4	752.7	752.2	749.9	747.0	745.3	742.7
55°	668.2	669.6	668.0	664.7	661.7	660.0	660.1	656.6	653.8	651.4	649.4
60°	569.4	570.6	570.1	567.0	565.1	562.8	562.3	558.2	554.6	552.1	551.0
65°	466.4	467.9	468.2	465.7	465.1	462.3	460.2	456.5	452.5	449.3	448.8
70°	361.9	363.5	365.0	362.6	364.0	359.9	356.7	352.7	348.5	345.6	345.7
75°	258.4	260.5	262.7	261.1	263.4	259.3	255.0	250.6	246.3	243.6	244.2
80°	159.4	162.2	165.2	165.0	167.5	163.8	158.8	153.2	149.6	147.5	148.3
85°	71.1	74.1	76.4	77.0	80.5	77.2	72.2	67.6	64.6	62.6	62.4
90°	2.4	2.3	1.5	1.6	1.0	0.9	0.8	0.8	1.0	0.6	0.3
95°	1.0	0.8	0.6	0.6	0.3	0.4	0.4	0.8	0.9	0.5	0.3
100°	1.0	0.7	0.4	0.5	0.3	0.4	0.5	0.9	1.3	0.6	0.4
105°	1.0	0.7	0.3	0.3	0.4	0.5	0.6	1.3	2.1	0.8	0.5
110°	0.9	0.7	0.3	0.3	0.5	0.6	0.7	1.3	2.4	0.9	0.6
115°	0.7	0.6	0.3	0.3	0.8	0.7	0.9	1.3	2.0	0.9	0.7
120°	0.5	0.6	0.3	0.3	0.7	0.7	0.9	1.3	1.5	0.9	0.8
125°	0.5	0.6	0.3	0.3	0.7	0.7	0.9	1.3	0.9	0.9	0.8
130°	0.5	0.6	0.3	0.3	0.8	0.7	1.0	1.5	0.8	1.0	1.0
135°	0.5	0.9	0.5	0.4	0.9	0.9	1.2	2.1	0.8	1.5	0.9
140°	0.6	1.3	0.9	0.8	0.9	1.0	1.4	2.4	0.9	2.1	1.1
145°	1.3	1.3	1.3	1.3	1.2	1.3	1.5	2.5	1.0	2.4	1.3
150°	1.3	1.6	1.5	1.3	1.6	1.6	1.7	2.6	1.3	2.5	1.5
155°	1.3	1.7	1.7	1.3	1.7	1.7	2.2	2.6	1.7	1.8	1.8
160°	1.5	1.8	1.7	1.4	2.1	2.1	2.3	2.6	2.5	1.7	2.4
165°	1.7	1.8	1.8	1.6	2.1	2.3	2.4	2.6	2.6	1.7	2.6
170°	1.7	2.1	2.3	1.9	2.4	2.4	2.5	2.6	2.6	1.7	2.6
175°	1.7	2.5	2.5	2.1	2.7	2.6	2.7	2.6	2.6	1.7	2.6
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



TEST NUMBER: P588671

CATALOG NUMBER: 14CGTS-NUV-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
5°	1222.5	1222.6	1222.3	1223.7	1223.9	1224.3
10°	1206.0	1205.8	1207.4	1208.2	1209.8	1210.5
15°	1180.9	1178.7	1180.9	1183.0	1185.4	1186.6
20°	1144.3	1143.0	1146.0	1148.7	1151.6	1153.5
25°	1098.7	1096.5	1100.3	1104.9	1108.2	1110.4
30°	1045.2	1040.4	1045.9	1050.4	1055.1	1057.9
35°	980.9	976.4	982.1	987.6	993.3	996.2
40°	909.3	904.5	909.5	916.8	922.4	925.5
45°	829.2	824.5	830.4	837.9	843.9	847.3
50°	741.7	736.3	742.7	751.0	756.7	761.2
55°	648.7	642.3	648.9	657.6	663.8	668.2
60°	550.4	544.4	549.9	559.1	565.0	569.4
65°	448.7	442.8	447.5	456.3	462.3	466.4
70°	345.6	340.1	344.8	351.9	357.7	361.9
75°	244.9	240.2	244.1	249.4	254.5	258.4
80°	149.5	146.0	149.1	152.9	156.2	159.4
85°	64.2	60.8	63.6	66.1	68.5	71.1
90°	0.5	1.1	1.3	1.6	1.9	2.4
95°	0.3	0.6	0.6	0.6	0.7	1.0
100°	0.3	0.5	0.5	0.4	0.6	1.0
105°	0.4	0.4	0.3	0.3	0.6	1.0
110°	0.5	0.4	0.3	0.3	0.6	0.9
115°	0.6	0.4	0.3	0.3	0.6	0.7
120°	0.6	0.4	0.3	0.3	0.6	0.5
125°	0.6	0.4	0.3	0.3	0.6	0.5
130°	0.7	0.4	0.3	0.3	0.6	0.5
135°	0.8	0.4	0.3	0.4	0.6	0.5
140°	1.0	0.7	0.6	0.8	1.3	0.6
145°	1.2	1.3	1.3	1.3	1.3	1.3
150°	1.4	1.3	1.3	1.4	1.5	1.3
155°	1.7	1.3	1.3	1.5	1.6	1.3
160°	2.1	1.3	1.3	1.5	1.7	1.5
165°	2.1	1.7	1.7	1.7	2.3	1.7
170°	2.4	1.7	2.1	2.4	2.4	1.7
175°	2.5	2.5	2.5	2.5	2.4	1.7
180°	1.7	1.7	1.7	1.7	1.7	1.7



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)