

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: P588670

Luminaire Tested: **14CGTS-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: P588670  
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-4000K  
Description: 1X4 CGT SELECT TROFFER AT LOW LUMEN OUTPUT AND 4000K COLOR SETTING

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

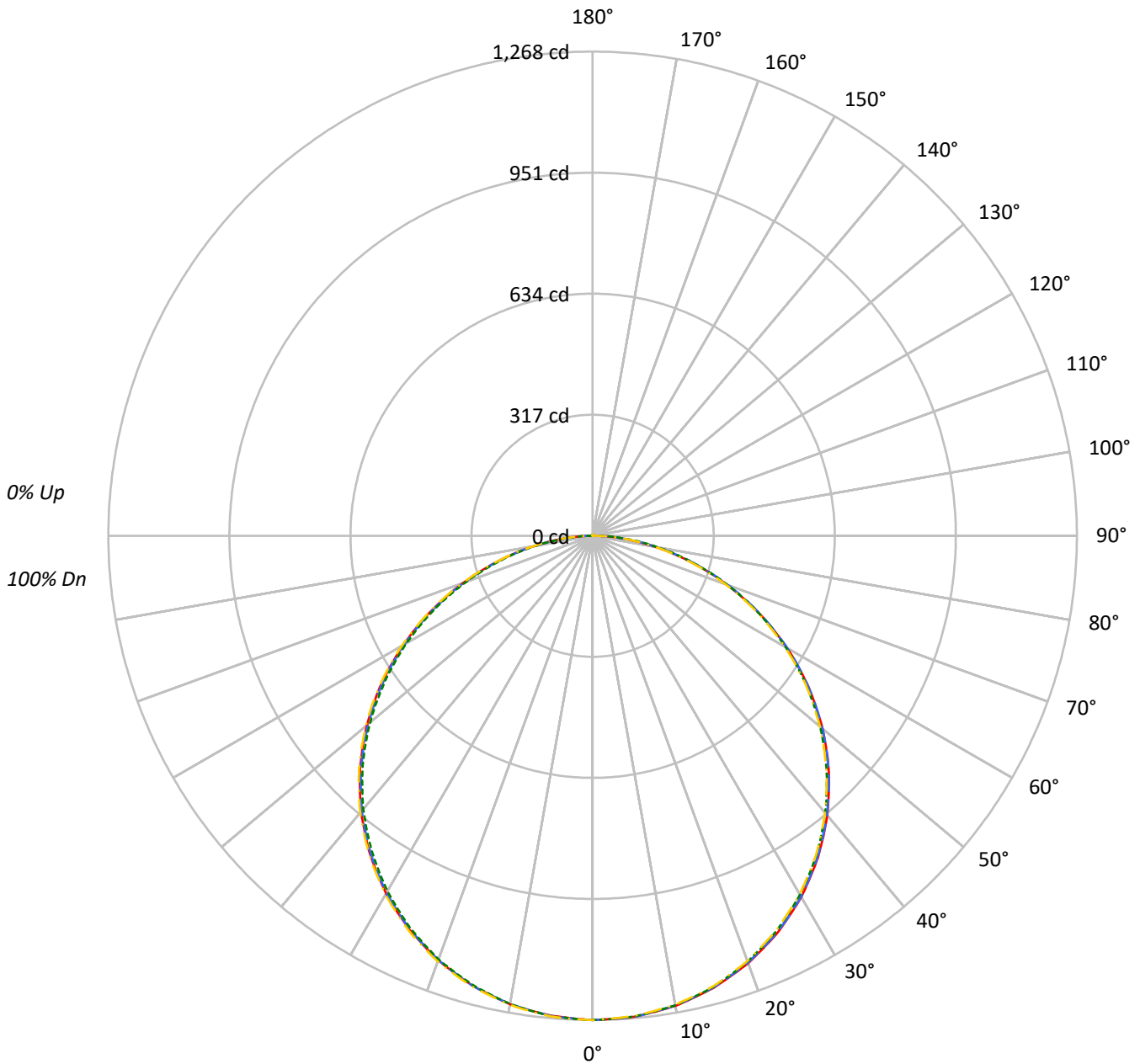
Lumens per Lamp: 3522.2 (1 lamp)  
Luminaire Lumens: 3735.0 lumens  
Efficiency: 106.0%  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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

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### 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	126	126	126	126	123	123	123	123	118	118	118	113	113	113	108	108	108	106																			
1	115	110	105	101	112	107	103	99	103	99	96	99	96	93	95	92	90	88																			
2	104	95	88	82	101	93	87	81	90	84	79	86	81	77	83	79	75	73																			
3	95	84	75	68	92	82	74	67	79	72	66	76	70	65	73	68	64	61																			
4	87	74	64	57	84	72	64	57	70	62	56	67	61	55	65	59	54	52																			
5	80	66	56	49	78	65	56	49	62	54	48	60	53	48	58	52	47	45																			
6	74	59	50	43	72	58	49	43	56	48	42	54	47	42	53	46	41	39																			
7	68	54	44	38	66	53	44	38	51	43	37	50	42	37	48	42	37	35																			
8	63	49	40	34	62	48	40	33	47	39	33	45	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	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			

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

	0°	90°	180°	270°
0°	3413	3413	3413	3413
5°	3415	3413	3408	3410
10°	3416	3412	3404	3402
15°	3414	3407	3397	3391
20°	3411	3398	3387	3380
25°	3405	3387	3375	3362
30°	3394	3373	3361	3338
35°	3379	3356	3341	3312
40°	3357	3329	3313	3281
45°	3330	3297	3277	3240
50°	3291	3257	3229	3183
55°	3237	3206	3167	3111
60°	3165	3140	3082	3026
65°	3067	3058	2975	2911
70°	2940	2958	2831	2763
75°	2774	2828	2644	2580
80°	2551	2681	2394	2337
85°	2266	2566	2059	1939



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	120.1	3.2	3.4	0°	1268	1268	1268	1268	1268	
10°-20°	344.8	9.2	9.8	5°	1264	1263	1262	1262	1264	120
20°-30°	525.4	14.1	14.9	15°	1225	1223	1219	1217	1225	346
30°-40°	637.9	17.1	18.1	25°	1147	1141	1137	1132	1147	529
40°-50°	666.7	17.9	18.9	35°	1029	1022	1017	1008	1029	643
50°-60°	606.8	16.2	17.2	45°	875	866	861	851	875	675
60°-70°	467.5	12.5	13.3	55°	690	683	675	663	690	616
70°-80°	276.5	7.4	7.9	65°	482	480	467	457	482	477
80°-90°	83.1	2.2	2.4	75°	267	272	254	248	267	283
90°-100°	0.8	0.0	0.0	85°	73	83	67	63	73	80
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°	990.3	26.5	28.1	165°	2	2	3	2	2	0
0°-40°	1628.2	43.6	46.2	175°	2	3	3	3	2	0
0°-60°	2901.7	77.7	82.4	180°	2	2	2	2	2	
<b>0°-90°</b>	<b>3728.9</b>	<b>99.8</b>	<b>105.9</b>							
90°-120°	2.3	0.1	0.1							
90°-150°	4.4	0.1	0.1							
<b>90°-180°</b>	<b>6.0</b>	<b>0.2</b>	<b>0.2</b>							
0°-180°	3735.0	100.0	106.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3
5°	1264.3	1264.6	1264.5	1264.1	1263.4	1263.1	1262.1	1262.0	1261.5	1262.0	1261.8
10°	1250.0	1250.3	1248.9	1248.9	1248.5	1247.7	1246.8	1246.5	1245.7	1245.0	1245.4
15°	1225.4	1226.6	1224.4	1223.1	1223.0	1221.7	1221.1	1220.8	1219.4	1219.2	1219.4
20°	1191.2	1191.2	1189.6	1188.3	1186.5	1186.0	1184.9	1183.9	1182.8	1182.5	1181.9
25°	1146.7	1147.3	1145.4	1143.2	1140.7	1140.4	1139.0	1137.9	1136.8	1136.1	1135.3
30°	1092.4	1093.2	1091.1	1087.7	1085.4	1084.9	1083.9	1082.4	1081.8	1080.3	1079.6
35°	1028.7	1029.6	1027.1	1023.4	1021.7	1020.8	1019.8	1017.8	1016.9	1015.8	1013.8
40°	955.6	956.6	954.3	950.7	947.8	947.8	947.1	944.8	943.2	941.9	940.0
45°	875.0	876.7	874.3	870.2	866.4	865.5	865.5	862.9	861.0	859.3	857.1
50°	786.0	787.8	785.4	781.9	778.0	777.2	776.8	774.4	771.4	769.6	767.0
55°	690.0	691.5	689.8	686.4	683.3	681.6	681.6	678.0	675.1	672.7	670.6
60°	588.0	589.2	588.7	585.5	583.5	581.2	580.6	576.5	572.7	570.1	569.0
65°	481.6	483.2	483.5	480.9	480.2	477.4	475.2	471.4	467.2	464.0	463.4
70°	373.7	375.3	376.9	374.4	375.9	371.7	368.3	364.2	359.8	356.9	357.0
75°	266.8	269.0	271.2	269.6	272.0	267.7	263.3	258.8	254.3	251.6	252.2
80°	164.6	167.5	170.6	170.4	173.0	169.2	164.0	158.2	154.5	152.3	153.1
85°	73.4	76.6	78.9	79.5	83.1	79.7	74.5	69.8	66.7	64.6	64.4
90°	2.5	2.4	1.6	1.6	1.0	0.9	0.8	0.8	1.1	0.6	0.3
95°	1.1	0.8	0.7	0.6	0.3	0.4	0.4	0.8	1.0	0.5	0.3
100°	1.1	0.7	0.4	0.5	0.3	0.4	0.5	1.0	1.3	0.6	0.4
105°	1.1	0.7	0.3	0.3	0.4	0.5	0.6	1.3	2.1	0.8	0.5
110°	1.0	0.7	0.3	0.3	0.5	0.6	0.7	1.4	2.5	0.9	0.7
115°	0.7	0.7	0.3	0.3	0.8	0.7	1.0	1.4	2.0	1.0	0.7
120°	0.5	0.6	0.3	0.3	0.7	0.7	1.0	1.3	1.5	1.0	0.8
125°	0.5	0.6	0.3	0.3	0.7	0.7	1.0	1.3	0.9	1.0	0.8
130°	0.5	0.6	0.3	0.3	0.8	0.7	1.1	1.5	0.8	1.1	1.0
135°	0.5	1.0	0.5	0.4	0.9	1.0	1.2	2.2	0.8	1.6	1.0
140°	0.6	1.3	1.0	0.8	1.0	1.1	1.5	2.4	0.9	2.1	1.1
145°	1.3	1.4	1.3	1.3	1.2	1.4	1.5	2.6	1.1	2.4	1.3
150°	1.3	1.6	1.5	1.3	1.6	1.6	1.8	2.7	1.4	2.5	1.5
155°	1.4	1.7	1.7	1.4	1.8	1.8	2.3	2.7	1.8	1.9	1.9
160°	1.5	1.9	1.7	1.5	2.1	2.1	2.4	2.7	2.5	1.8	2.4
165°	1.7	1.9	1.9	1.6	2.2	2.4	2.5	2.7	2.7	1.8	2.7
170°	1.7	2.2	2.4	2.0	2.4	2.4	2.5	2.7	2.7	1.8	2.7
175°	1.8	2.5	2.5	2.2	2.8	2.7	2.8	2.7	2.7	1.8	2.7
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1268.3	1268.3	1268.3	1268.3	1268.3	1268.3
5°	1262.3	1262.5	1262.2	1263.6	1263.9	1264.3
10°	1245.4	1245.1	1246.8	1247.6	1249.2	1250.0
15°	1219.4	1217.2	1219.4	1221.6	1224.1	1225.4
20°	1181.6	1180.3	1183.4	1186.2	1189.2	1191.2
25°	1134.6	1132.2	1136.2	1140.9	1144.3	1146.7
30°	1079.3	1074.3	1080.0	1084.7	1089.6	1092.4
35°	1012.9	1008.3	1014.1	1019.8	1025.7	1028.7
40°	939.0	934.0	939.2	946.7	952.5	955.6
45°	856.3	851.4	857.5	865.2	871.5	875.0
50°	765.9	760.4	766.9	775.5	781.4	786.0
55°	669.8	663.2	670.1	679.1	685.5	690.0
60°	568.3	562.2	567.8	577.3	583.4	588.0
65°	463.3	457.2	462.1	471.2	477.4	481.6
70°	356.9	351.2	356.0	363.4	369.4	373.7
75°	252.9	248.1	252.1	257.5	262.8	266.8
80°	154.4	150.8	154.0	157.9	161.3	164.6
85°	66.3	62.8	65.7	68.2	70.7	73.4
90°	0.5	1.2	1.4	1.7	1.9	2.5
95°	0.3	0.6	0.6	0.7	0.7	1.1
100°	0.3	0.5	0.5	0.4	0.6	1.1
105°	0.4	0.4	0.3	0.3	0.6	1.1
110°	0.5	0.4	0.3	0.3	0.6	1.0
115°	0.7	0.4	0.3	0.3	0.6	0.7
120°	0.7	0.4	0.3	0.3	0.6	0.5
125°	0.7	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	1.4	1.3	1.4	1.3
150°	1.5	1.3	1.4	1.5	1.5	1.3
155°	1.7	1.3	1.4	1.5	1.6	1.4
160°	2.1	1.4	1.4	1.5	1.7	1.5
165°	2.2	1.7	1.7	1.8	2.4	1.7
170°	2.4	1.8	2.2	2.5	2.5	1.7
175°	2.5	2.6	2.6	2.6	2.5	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)