

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: P588678

Luminaire Tested: **22CGTS-NUV-LOW-3500K**

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: P588678  
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-3500K  
Description: 2X2 CGT SELECT TROFFER AT LOW LUMEN OUTPUT AND 3500K COLOR SETTING

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

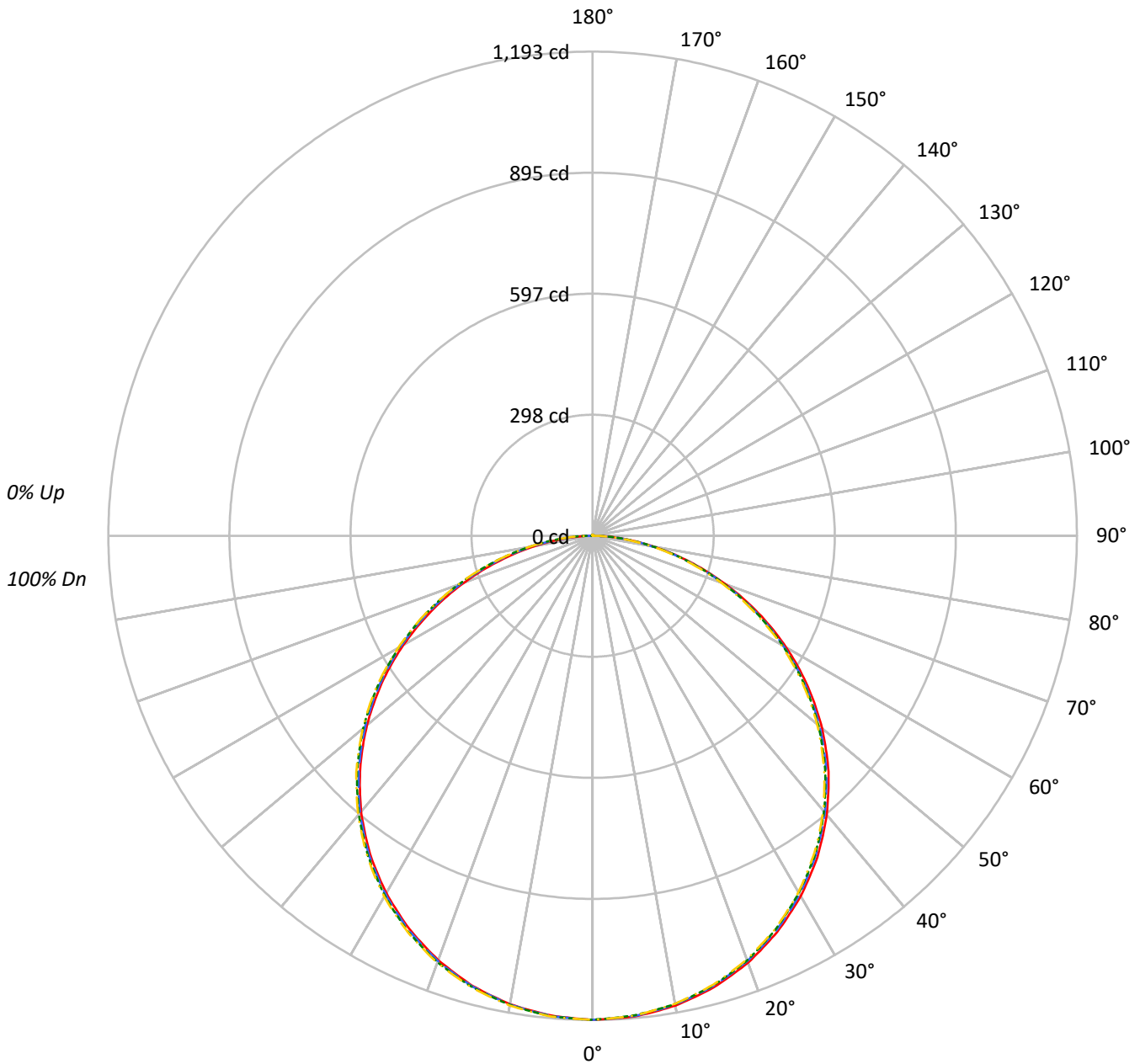
**Summary**

Lumens per Lamp: 3510.7 (1 lamp)  
Luminaire Lumens: 3515.1 lumens  
Efficiency: 100.1%  
Efficacy: 116.4 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): 30.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

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

	0°	90°	180°	270°
0°	3209	3209	3209	3209
5°	3212	3204	3205	3209
10°	3212	3201	3202	3208
15°	3209	3196	3197	3205
20°	3206	3188	3186	3202
25°	3197	3174	3174	3195
30°	3186	3157	3159	3182
35°	3173	3142	3142	3167
40°	3151	3116	3117	3146
45°	3126	3081	3082	3122
50°	3089	3038	3037	3087
55°	3036	2982	2977	3035
60°	2966	2909	2897	2968
65°	2868	2809	2786	2877
70°	2737	2684	2643	2765
75°	2569	2521	2457	2623
80°	2335	2317	2193	2455
85°	2010	1995	1797	2238



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	112.9	3.2	3.2	0°	1193	1193	1193	1193	1193	
10°-20°	324.4	9.2	9.2	5°	1189	1186	1186	1188	1189	113
20°-30°	494.4	14.1	14.1	15°	1152	1147	1148	1151	1152	325
30°-40°	600.5	17.1	17.1	25°	1077	1069	1069	1076	1077	496
40°-50°	628.2	17.9	17.9	35°	966	956	956	964	966	604
50°-60°	572.2	16.3	16.3	45°	822	810	810	820	822	633
60°-70°	440.3	12.5	12.5	55°	647	636	635	647	647	578
70°-80°	259.5	7.4	7.4	65°	450	441	438	452	450	446
80°-90°	76.8	2.2	2.2	75°	247	242	236	252	247	262
90°-100°	0.8	0.0	0.0	85°	65	65	58	72	65	72
100°-110°	0.6	0.0	0.0	90°	2	0	0	2	2	9
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	0	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	1	2	0	1	0
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°	931.7	26.5	26.5	165°	2	2	2	2	2	0
0°-40°	1532.2	43.6	43.6	175°	2	3	2	2	2	0
0°-60°	2732.5	77.7	77.8	180°	2	2	2	2	2	
<b>0°-90°</b>	<b>3509.0</b>	<b>99.8</b>	<b>100.0</b>							
90°-120°	2.1	0.1	0.1							
90°-150°	4.5	0.1	0.1							
<b>90°-180°</b>	<b>6.0</b>	<b>0.2</b>	<b>0.2</b>							
0°-180°	3515.1	100.0	100.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6
5°	1189.0	1188.3	1187.6	1187.5	1186.0	1186.8	1186.5	1186.4	1186.4	1187.1	1187.4
10°	1175.5	1174.0	1172.6	1172.0	1171.4	1171.4	1170.7	1171.1	1172.0	1172.1	1172.7
15°	1152.0	1150.3	1148.5	1147.3	1147.3	1146.2	1145.5	1146.3	1147.5	1148.3	1149.1
20°	1119.5	1117.1	1114.5	1112.9	1113.4	1111.4	1110.7	1111.7	1112.4	1114.0	1115.1
25°	1076.7	1074.5	1072.1	1069.6	1068.9	1068.0	1067.0	1067.5	1068.9	1070.7	1072.2
30°	1025.2	1022.5	1019.9	1017.3	1016.0	1014.7	1014.2	1014.6	1016.6	1018.2	1020.6
35°	965.8	962.3	959.1	955.1	956.3	954.1	952.6	953.7	956.5	958.2	960.4
40°	897.0	893.7	889.7	886.1	886.9	884.8	883.8	884.4	887.3	888.6	891.7
45°	821.5	817.5	813.9	809.7	809.7	807.5	805.9	807.3	809.8	811.9	814.5
50°	737.9	733.4	729.5	725.1	725.6	723.1	721.5	722.6	725.5	727.4	731.6
55°	647.2	643.1	639.1	635.0	635.7	633.2	630.8	631.7	634.6	636.9	641.3
60°	551.1	546.7	542.4	538.5	540.6	537.7	535.4	535.3	538.2	540.9	546.4
65°	450.4	446.6	442.7	439.2	441.1	438.6	435.6	434.8	437.6	441.0	446.6
70°	347.9	344.1	341.4	338.3	341.1	338.1	335.2	333.8	335.9	339.7	345.9
75°	247.1	244.2	242.0	239.9	242.5	240.1	237.0	235.1	236.3	240.4	246.7
80°	150.7	148.3	148.3	147.1	149.5	147.2	143.6	140.7	141.5	145.4	152.5
85°	65.1	63.3	62.9	62.7	64.6	62.5	58.8	57.3	58.2	61.0	66.4
90°	1.6	1.3	1.2	1.2	0.5	0.5	0.5	0.5	0.5	0.5	1.1
95°	0.6	0.6	0.6	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	0.5	0.5	0.5	0.5	0.5
105°	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.7
110°	0.4	0.4	0.5	0.4	0.8	0.9	0.9	0.8	0.7	0.8	0.9
115°	0.4	0.4	0.5	0.4	0.9	1.0	1.0	0.9	0.9	1.1	1.0
120°	0.4	0.4	0.5	0.4	1.0	1.2	1.2	0.9	1.0	1.0	1.2
125°	0.4	0.4	0.5	0.4	1.1	1.2	1.2	0.9	1.0	1.0	1.2
130°	0.4	0.4	0.5	0.4	1.2	1.5	1.3	1.1	1.2	1.3	1.4
135°	0.6	0.4	0.5	0.4	1.4	1.5	1.4	1.4	1.5	1.6	1.5
140°	1.0	0.8	0.5	0.6	1.5	1.6	1.5	1.5	1.5	1.8	1.7
145°	1.3	1.3	0.7	1.1	1.7	1.7	1.7	1.8	1.7	1.8	1.8
150°	1.3	1.3	1.3	1.3	1.9	1.9	2.0	2.0	1.8	2.0	2.0
155°	1.3	1.3	1.2	1.3	2.1	2.2	2.2	2.2	2.0	2.3	2.2
160°	1.3	1.3	1.2	1.3	2.4	2.5	2.5	2.2	2.3	2.3	2.5
165°	1.7	1.6	1.5	1.4	2.5	2.5	2.6	2.2	2.3	2.3	2.5
170°	1.9	1.9	1.7	1.9	2.5	2.5	2.7	2.2	2.3	2.3	2.5
175°	2.2	2.4	2.1	2.5	2.8	2.5	2.7	2.2	2.3	2.3	2.5
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6
5°	1187.9	1188.0	1189.3	1189.0	1189.2	1189.0
10°	1173.6	1173.9	1175.4	1175.3	1175.6	1175.5
15°	1150.3	1150.6	1152.4	1152.2	1152.4	1152.0
20°	1117.8	1118.2	1119.8	1119.6	1119.8	1119.5
25°	1074.9	1076.0	1078.0	1077.7	1078.0	1076.7
30°	1023.2	1024.0	1026.3	1027.1	1026.9	1025.2
35°	963.4	964.1	966.5	966.8	966.5	965.8
40°	895.3	895.7	898.1	898.6	898.2	897.0
45°	818.7	820.4	822.3	823.2	822.2	821.5
50°	735.0	737.3	738.8	739.5	738.8	737.9
55°	645.7	647.0	649.2	649.8	648.6	647.2
60°	550.8	551.5	553.9	554.0	552.2	551.1
65°	451.7	451.9	454.8	454.2	452.1	450.4
70°	350.9	351.4	353.8	352.9	350.0	347.9
75°	252.6	252.3	254.5	253.1	250.1	247.1
80°	159.0	158.4	160.0	158.6	154.2	150.7
85°	73.2	72.5	73.9	71.7	68.1	65.1
90°	2.8	2.2	3.1	3.2	2.4	1.6
95°	0.5	0.7	0.6	0.6	0.7	0.6
100°	0.5	0.5	0.5	0.5	0.5	0.4
105°	0.5	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°	1.0	0.5	0.5	0.5	0.4	0.4
125°	1.1	0.5	0.5	0.5	0.4	0.4
130°	1.3	0.5	0.5	0.5	0.4	0.4
135°	1.4	0.5	0.5	0.5	0.5	0.6
140°	1.5	1.0	1.0	0.5	0.9	1.0
145°	1.7	1.2	1.3	0.8	1.2	1.3
150°	1.9	1.3	1.3	1.2	1.3	1.3
155°	2.2	1.3	1.3	1.2	1.3	1.3
160°	2.2	1.3	1.3	1.2	1.3	1.3
165°	2.2	1.5	1.5	1.4	1.5	1.7
170°	2.2	1.8	1.9	1.7	1.8	1.9
175°	2.2	2.3	2.5	2.0	2.3	2.2
180°	2.2	2.2	2.2	2.2	2.2	2.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)