

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: P588673

Luminaire Tested: **14CGTS-NUV-MID-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: P588673  
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-MID-4000K  
Description: 1X4 CGT SELECT TROFFER AT MID LUMEN OUTPUT AND 4000K COLOR SETTING

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

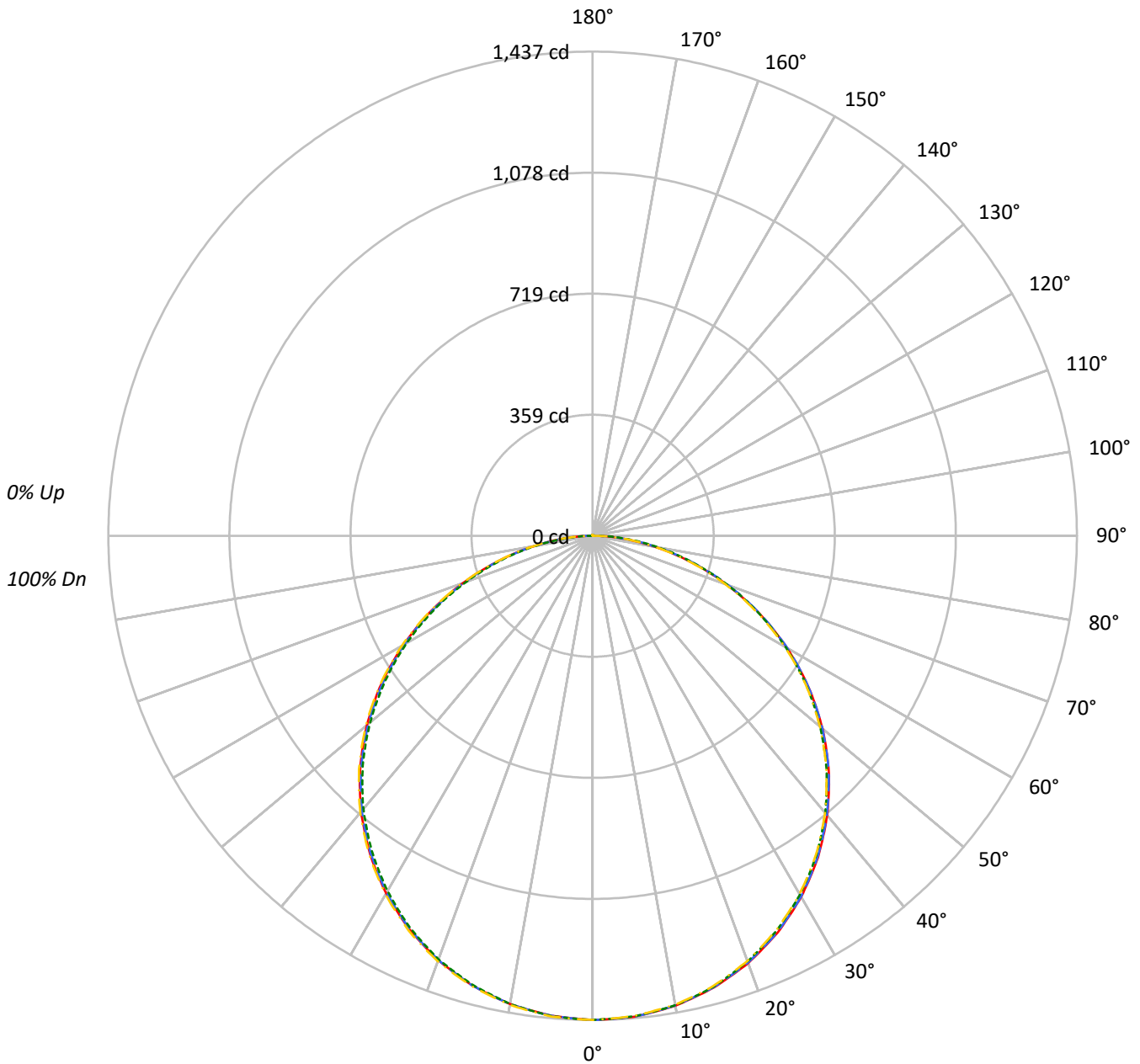
Lumens per Lamp: 3522.2 (1 lamp)  
Luminaire Lumens: 4232.0 lumens  
Efficiency: 120.2%  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.2  
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	143	143	143	143	140	140	140	140	133	133	133	128	128	128	122	122	122	120																			
1	130	124	119	114	127	122	117	112	116	112	109	112	108	105	107	105	102	100																			
2	118	108	100	93	115	106	98	91	101	95	89	97	92	87	94	89	85	83																			
3	108	95	85	77	105	93	83	76	89	81	75	86	79	73	83	77	72	69																			
4	98	84	73	65	96	82	72	64	79	70	63	76	69	62	74	67	62	59																			
5	90	75	64	56	88	73	63	55	71	62	55	68	60	54	66	59	53	51																			
6	83	67	56	48	81	66	56	48	64	55	48	62	54	47	60	53	47	44																			
7	77	61	50	43	75	60	50	43	58	49	42	56	48	42	55	47	42	39																			
8	72	55	45	38	70	55	45	38	53	44	38	51	43	37	50	43	37	35																			
9	67	51	41	34	65	50	41	34	49	40	34	47	39	34	46	39	33	31																			
10	63	47	37	31	61	46	37	31	45	37	31	44	36	31	43	36	30	28																			

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

	0°	90°	180°	270°
0°	3867	3867	3867	3867
5°	3870	3867	3861	3864
10°	3870	3866	3857	3855
15°	3868	3860	3849	3842
20°	3865	3850	3838	3830
25°	3858	3838	3824	3809
30°	3846	3822	3809	3782
35°	3829	3803	3785	3753
40°	3804	3772	3754	3718
45°	3773	3736	3713	3671
50°	3728	3690	3659	3607
55°	3668	3632	3589	3526
60°	3585	3559	3492	3428
65°	3475	3465	3371	3299
70°	3332	3351	3208	3131
75°	3143	3204	2996	2923
80°	2890	3037	2713	2648
85°	2569	2908	2334	2198



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	136.0	3.2	3.9	0°	1437	1437	1437	1437	1437	
10°-20°	390.7	9.2	11.1	5°	1432	1432	1429	1430	1432	136
20°-30°	595.3	14.1	16.9	15°	1388	1386	1382	1379	1388	392
30°-40°	722.8	17.1	20.5	25°	1299	1292	1288	1283	1299	599
40°-50°	755.4	17.9	21.4	35°	1166	1158	1152	1142	1166	729
50°-60°	687.6	16.2	19.5	45°	991	982	976	965	991	764
60°-70°	529.7	12.5	15.0	55°	782	774	765	752	782	698
70°-80°	313.3	7.4	8.9	65°	546	544	529	518	546	540
80°-90°	94.2	2.2	2.7	75°	302	308	288	281	302	321
90°-100°	1.0	0.0	0.0	85°	83	94	76	71	83	91
100°-110°	0.8	0.0	0.0	90°	3	1	1	1	3	12
110°-120°	0.8	0.0	0.0	95°	1	0	1	1	1	1
120°-130°	0.7	0.0	0.0	105°	1	0	2	0	1	1
130°-140°	0.8	0.0	0.0	115°	1	1	2	0	1	1
140°-150°	1.0	0.0	0.0	125°	1	1	1	0	1	1
150°-160°	0.9	0.0	0.0	135°	1	1	1	0	1	0
160°-170°	0.7	0.0	0.0	145°	2	1	1	2	2	1
170°-180°	0.3	0.0	0.0	155°	2	2	2	2	2	1
0°-30°	1122.0	26.5	31.9	165°	2	2	3	2	2	1
0°-40°	1844.8	43.6	52.4	175°	2	3	3	3	2	0
0°-60°	3287.8	77.7	93.3	180°	2	2	2	2	2	
0°-90°	4225.1	99.8	120.0							
90°-120°	2.6	0.1	0.1							
90°-150°	5.1	0.1	0.1							
90°-180°	7.0	0.2	0.2							
0°-180°	4232.0	100.0	120.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0
5°	1432.5	1432.9	1432.7	1432.3	1431.5	1431.2	1430.1	1430.0	1429.3	1429.9	1429.7
10°	1416.3	1416.6	1415.1	1415.0	1414.7	1413.8	1412.7	1412.4	1411.5	1410.7	1411.2
15°	1388.4	1389.8	1387.3	1385.9	1385.7	1384.3	1383.6	1383.2	1381.6	1381.4	1381.6
20°	1349.7	1349.7	1347.9	1346.5	1344.3	1343.8	1342.6	1341.4	1340.2	1339.9	1339.2
25°	1299.2	1299.9	1297.8	1295.3	1292.5	1292.1	1290.5	1289.3	1288.0	1287.3	1286.3
30°	1237.8	1238.6	1236.3	1232.4	1229.9	1229.3	1228.1	1226.5	1225.7	1224.1	1223.2
35°	1165.6	1166.6	1163.8	1159.6	1157.6	1156.7	1155.5	1153.3	1152.2	1151.0	1148.7
40°	1082.8	1083.9	1081.3	1077.2	1073.9	1073.9	1073.1	1070.5	1068.7	1067.2	1065.1
45°	991.4	993.4	990.6	986.0	981.7	980.6	980.6	977.7	975.6	973.7	971.2
50°	890.6	892.6	889.9	885.9	881.5	880.6	880.1	877.4	874.0	872.0	869.0
55°	781.8	783.5	781.6	777.7	774.2	772.3	772.3	768.2	764.9	762.2	759.8
60°	666.2	667.6	667.1	663.5	661.2	658.5	657.9	653.2	648.9	646.0	644.7
65°	545.7	547.4	547.9	544.8	544.1	541.0	538.5	534.2	529.4	525.7	525.1
70°	423.5	425.3	427.0	424.2	425.9	421.1	417.3	412.7	407.7	404.4	404.5
75°	302.3	304.7	307.3	305.5	308.2	303.3	298.4	293.3	288.2	285.0	285.7
80°	186.5	189.7	193.3	193.1	196.0	191.7	185.8	179.3	175.1	172.5	173.5
85°	83.2	86.7	89.4	90.1	94.2	90.3	84.4	79.1	75.6	73.2	73.0
90°	2.8	2.7	1.8	1.8	1.2	1.0	0.9	0.9	1.2	0.6	0.4
95°	1.2	0.9	0.7	0.6	0.4	0.5	0.5	0.9	1.1	0.6	0.4
100°	1.2	0.8	0.5	0.6	0.4	0.5	0.6	1.1	1.5	0.6	0.5
105°	1.2	0.8	0.4	0.4	0.5	0.6	0.6	1.5	2.4	0.9	0.6
110°	1.1	0.8	0.4	0.4	0.6	0.6	0.8	1.6	2.9	1.0	0.7
115°	0.8	0.7	0.4	0.4	0.9	0.8	1.1	1.6	2.3	1.1	0.8
120°	0.6	0.6	0.4	0.4	0.8	0.8	1.1	1.5	1.8	1.1	0.9
125°	0.6	0.6	0.4	0.4	0.8	0.8	1.1	1.5	1.0	1.1	0.9
130°	0.6	0.6	0.4	0.4	0.9	0.8	1.2	1.8	0.9	1.2	1.1
135°	0.6	1.1	0.6	0.5	1.0	1.1	1.4	2.5	0.9	1.8	1.1
140°	0.7	1.5	1.1	0.9	1.1	1.2	1.7	2.8	1.0	2.4	1.3
145°	1.5	1.6	1.5	1.5	1.4	1.6	1.8	3.0	1.2	2.8	1.5
150°	1.5	1.8	1.8	1.5	1.8	1.8	2.0	3.0	1.6	2.9	1.8
155°	1.6	1.9	1.9	1.6	2.0	2.0	2.6	3.0	2.0	2.1	2.1
160°	1.8	2.1	1.9	1.7	2.4	2.4	2.7	3.0	2.9	2.0	2.8
165°	1.9	2.1	2.1	1.8	2.5	2.7	2.9	3.0	3.0	2.0	3.0
170°	1.9	2.5	2.7	2.2	2.8	2.8	2.9	3.0	3.0	2.0	3.0
175°	2.0	2.9	2.9	2.5	3.1	3.0	3.1	3.0	3.0	2.0	3.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0
5°	1430.3	1430.5	1430.1	1431.7	1432.0	1432.5
10°	1411.1	1410.8	1412.7	1413.6	1415.5	1416.3
15°	1381.7	1379.2	1381.7	1384.2	1387.0	1388.4
20°	1338.9	1337.4	1340.9	1344.0	1347.4	1349.7
25°	1285.6	1282.9	1287.4	1292.8	1296.6	1299.2
30°	1222.9	1217.3	1223.8	1229.0	1234.5	1237.8
35°	1147.7	1142.4	1149.1	1155.5	1162.1	1165.6
40°	1063.9	1058.3	1064.1	1072.6	1079.2	1082.8
45°	970.2	964.6	971.6	980.4	987.4	991.4
50°	867.8	861.5	868.9	878.7	885.4	890.6
55°	759.0	751.5	759.3	769.5	776.7	781.8
60°	643.9	637.0	643.4	654.1	661.1	666.2
65°	524.9	518.1	523.6	533.9	540.9	545.7
70°	404.4	398.0	403.4	411.8	418.5	423.5
75°	286.5	281.1	285.7	291.8	297.8	302.3
80°	174.9	170.9	174.5	178.9	182.8	186.5
85°	75.1	71.2	74.4	77.3	80.2	83.2
90°	0.6	1.3	1.5	1.9	2.2	2.8
95°	0.4	0.6	0.6	0.7	0.8	1.2
100°	0.4	0.6	0.6	0.5	0.7	1.2
105°	0.5	0.5	0.4	0.4	0.7	1.2
110°	0.6	0.5	0.4	0.4	0.7	1.1
115°	0.7	0.5	0.4	0.4	0.7	0.8
120°	0.7	0.5	0.4	0.4	0.6	0.6
125°	0.7	0.5	0.4	0.4	0.6	0.6
130°	0.8	0.5	0.4	0.4	0.6	0.6
135°	0.9	0.5	0.4	0.5	0.7	0.6
140°	1.1	0.8	0.7	0.9	1.5	0.7
145°	1.4	1.5	1.6	1.5	1.6	1.5
150°	1.7	1.5	1.6	1.7	1.8	1.5
155°	1.9	1.5	1.6	1.8	1.8	1.6
160°	2.4	1.6	1.6	1.8	1.9	1.8
165°	2.5	1.9	1.9	2.0	2.7	1.9
170°	2.8	2.0	2.5	2.9	2.9	1.9
175°	2.9	3.0	3.0	3.0	2.9	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)