

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: P588672

Luminaire Tested: **14CGTS-NUV-MID-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: P588672
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-3500K
Description: 1X4 CGT SELECT TROFFER AT MID LUMEN OUTPUT AND 3500K COLOR SETTING

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

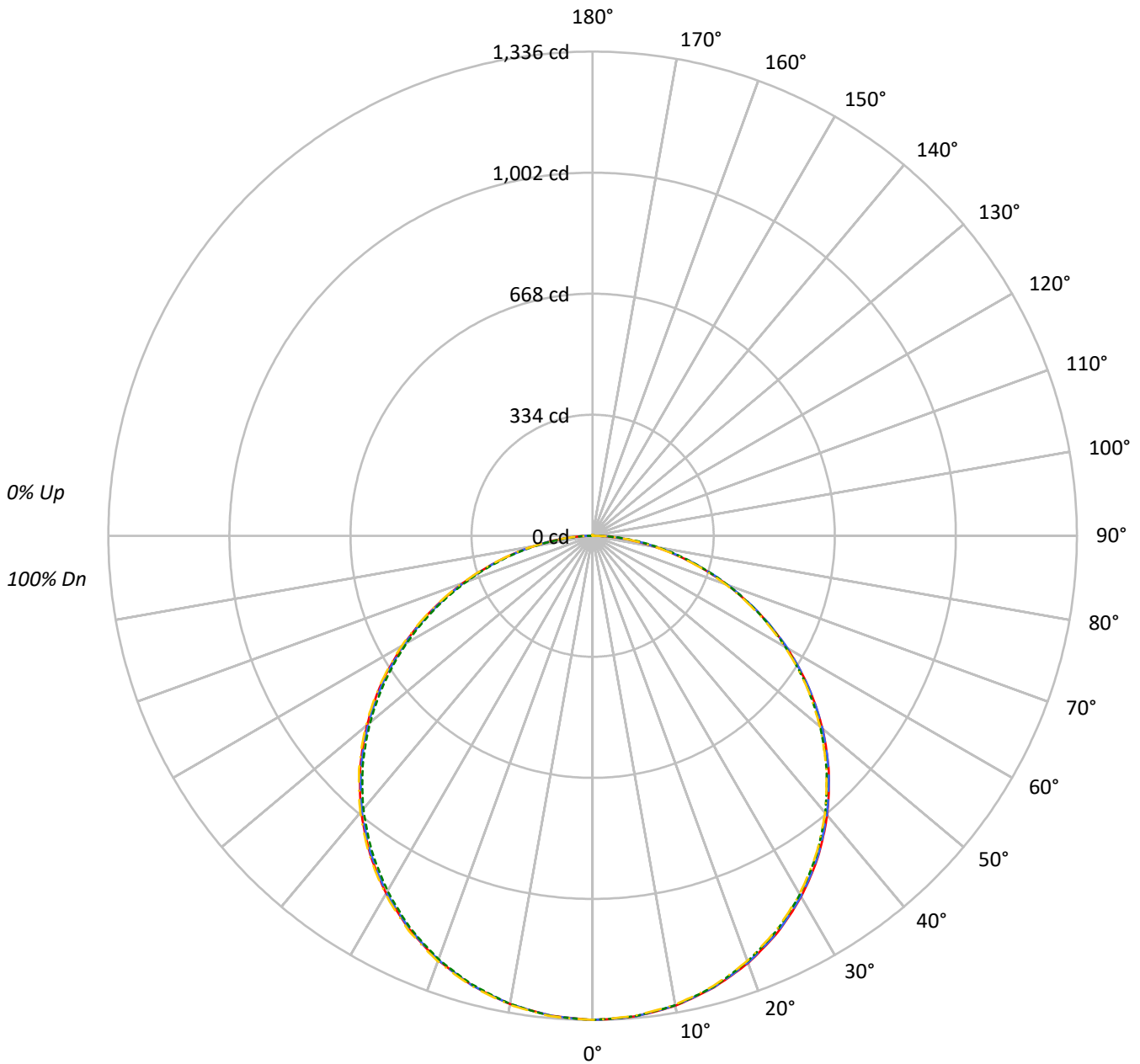
Lumens per Lamp: 3522.2 (1 lamp)
Luminaire Lumens: 3933.9 lumens
Efficiency: 111.7%
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.4
Input Voltage (V): NR
Input Current (Ain): 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	133	133	133	133	130	130	130	130	124	124	124	119	119	119	114	114	114	112																			
1	121	116	111	106	118	113	109	104	108	105	101	104	101	98	100	97	95	93																			
2	110	100	93	86	107	98	91	85	94	88	83	91	86	81	87	83	79	77																			
3	100	88	79	71	97	86	78	71	83	75	69	80	73	68	77	71	67	64																			
4	91	78	68	60	89	76	67	60	73	65	59	71	64	58	68	62	57	55																			
5	84	69	59	52	82	68	59	51	66	57	51	64	56	50	61	55	50	47																			
6	78	62	52	45	75	61	52	45	59	51	44	57	50	44	56	49	44	41																			
7	72	57	47	40	70	56	46	40	54	45	39	52	45	39	51	44	39	36																			
8	67	52	42	35	65	51	42	35	49	41	35	48	40	35	47	40	35	32																			
9	62	47	38	32	61	47	38	32	45	37	31	44	37	31	43	36	31	29																			
10	59	44	35	29	57	43	34	29	42	34	29	41	34	28	40	33	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3595	3595	3595	3595
5°	3597	3595	3589	3592
10°	3598	3593	3585	3583
15°	3595	3589	3578	3572
20°	3593	3579	3568	3560
25°	3586	3567	3555	3541
30°	3575	3553	3540	3516
35°	3559	3535	3519	3489
40°	3536	3507	3490	3456
45°	3507	3473	3451	3412
50°	3466	3430	3401	3353
55°	3409	3377	3336	3277
60°	3333	3308	3246	3187
65°	3230	3221	3133	3067
70°	3097	3115	2982	2910
75°	2922	2979	2785	2717
80°	2687	2824	2523	2461
85°	2390	2705	2167	2044



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	126.5	3.2	3.6	0°	1336	1336	1336	1336	1336	
10°-20°	363.2	9.2	10.3	5°	1332	1331	1329	1330	1332	127
20°-30°	553.4	14.1	15.7	15°	1291	1288	1284	1282	1291	364
30°-40°	671.9	17.1	19.1	25°	1208	1202	1197	1193	1208	557
40°-50°	702.3	17.9	19.9	35°	1084	1076	1071	1062	1084	678
50°-60°	639.2	16.2	18.1	45°	922	913	907	897	922	711
60°-70°	492.4	12.5	14.0	55°	727	720	711	698	727	649
70°-80°	291.3	7.4	8.3	65°	507	506	492	482	507	502
80°-90°	87.6	2.2	2.5	75°	281	286	268	261	281	298
90°-100°	0.9	0.0	0.0	85°	77	88	70	66	77	84
100°-110°	0.7	0.0	0.0	90°	3	1	1	1	3	11
110°-120°	0.8	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°	0.9	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°	2	2	2	1	2	1
0°-30°	1043.0	26.5	29.6	165°	2	2	3	2	2	0
0°-40°	1714.9	43.6	48.7	175°	2	3	3	3	2	0
0°-60°	3056.3	77.7	86.8	180°	2	2	2	2	2	
0°-90°	3927.6	99.8	111.5							
90°-120°	2.4	0.1	0.1							
90°-150°	4.6	0.1	0.1							
90°-180°	6.0	0.2	0.2							
0°-180°	3933.9	100.0	111.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8
5°	1331.6	1332.0	1331.8	1331.5	1330.7	1330.4	1329.4	1329.3	1328.7	1329.2	1329.0
10°	1316.6	1316.9	1315.4	1315.4	1315.1	1314.2	1313.3	1312.9	1312.1	1311.3	1311.8
15°	1290.6	1291.9	1289.6	1288.3	1288.2	1286.8	1286.1	1285.8	1284.4	1284.2	1284.3
20°	1254.6	1254.7	1253.0	1251.6	1249.7	1249.2	1248.0	1247.0	1245.8	1245.5	1244.9
25°	1207.8	1208.4	1206.4	1204.1	1201.5	1201.1	1199.7	1198.5	1197.3	1196.6	1195.7
30°	1150.6	1151.4	1149.2	1145.7	1143.3	1142.7	1141.6	1140.1	1139.4	1137.9	1137.1
35°	1083.5	1084.5	1081.8	1077.9	1076.1	1075.2	1074.1	1072.1	1071.1	1069.9	1067.8
40°	1006.6	1007.5	1005.2	1001.4	998.3	998.3	997.5	995.1	993.4	992.0	990.1
45°	921.6	923.4	920.8	916.6	912.6	911.6	911.6	908.9	906.9	905.1	902.8
50°	827.9	829.8	827.2	823.5	819.4	818.6	818.1	815.6	812.4	810.6	807.8
55°	726.7	728.3	726.6	722.9	719.7	717.9	717.9	714.1	711.1	708.5	706.3
60°	619.3	620.6	620.1	616.7	614.6	612.1	611.6	607.2	603.2	600.5	599.3
65°	507.3	508.9	509.3	506.5	505.8	502.9	500.6	496.6	492.1	488.7	488.1
70°	393.6	395.3	396.9	394.4	395.9	391.5	388.0	383.6	379.0	375.9	376.0
75°	281.0	283.3	285.7	284.0	286.5	282.0	277.4	272.6	267.9	265.0	265.6
80°	173.4	176.4	179.7	179.5	182.2	178.2	172.8	166.6	162.8	160.4	161.3
85°	77.4	80.6	83.1	83.7	87.6	83.9	78.5	73.5	70.2	68.1	67.9
90°	2.6	2.5	1.7	1.7	1.1	0.9	0.8	0.9	1.1	0.6	0.3
95°	1.1	0.9	0.7	0.6	0.3	0.4	0.4	0.9	1.0	0.5	0.3
100°	1.1	0.8	0.4	0.5	0.3	0.4	0.5	1.0	1.4	0.6	0.4
105°	1.1	0.8	0.3	0.3	0.4	0.5	0.6	1.4	2.2	0.9	0.5
110°	1.0	0.8	0.3	0.3	0.5	0.6	0.8	1.5	2.7	0.9	0.7
115°	0.8	0.7	0.3	0.3	0.9	0.8	1.0	1.5	2.1	1.0	0.8
120°	0.5	0.6	0.3	0.3	0.8	0.8	1.0	1.4	1.6	1.0	0.9
125°	0.5	0.6	0.3	0.3	0.8	0.8	1.0	1.4	0.9	1.0	0.9
130°	0.5	0.6	0.3	0.3	0.9	0.8	1.1	1.6	0.9	1.1	1.0
135°	0.5	1.0	0.5	0.4	0.9	1.0	1.3	2.3	0.9	1.6	1.0
140°	0.7	1.4	1.0	0.8	1.0	1.1	1.5	2.6	0.9	2.2	1.2
145°	1.4	1.5	1.4	1.4	1.3	1.5	1.6	2.7	1.1	2.6	1.4
150°	1.4	1.7	1.6	1.4	1.7	1.7	1.9	2.8	1.5	2.7	1.6
155°	1.5	1.8	1.8	1.5	1.9	1.9	2.4	2.8	1.9	2.0	2.0
160°	1.6	2.0	1.8	1.6	2.2	2.2	2.5	2.8	2.7	1.9	2.6
165°	1.8	2.0	2.0	1.7	2.3	2.5	2.7	2.8	2.8	1.9	2.8
170°	1.8	2.3	2.5	2.1	2.6	2.6	2.7	2.8	2.8	1.9	2.8
175°	1.9	2.7	2.7	2.3	2.9	2.8	2.9	2.8	2.8	1.9	2.8
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8
5°	1329.6	1329.7	1329.4	1330.9	1331.2	1331.6
10°	1311.7	1311.4	1313.2	1314.0	1315.8	1316.6
15°	1284.4	1282.1	1284.4	1286.7	1289.3	1290.6
20°	1244.6	1243.2	1246.5	1249.4	1252.6	1254.6
25°	1195.0	1192.6	1196.7	1201.7	1205.3	1207.8
30°	1136.8	1131.5	1137.6	1142.5	1147.6	1150.6
35°	1066.9	1062.0	1068.2	1074.2	1080.3	1083.5
40°	989.0	983.8	989.2	997.1	1003.2	1006.6
45°	901.9	896.7	903.2	911.3	917.9	921.6
50°	806.7	800.9	807.8	816.8	823.0	827.9
55°	705.5	698.5	705.8	715.3	722.0	726.7
60°	598.6	592.2	598.1	608.1	614.5	619.3
65°	488.0	481.6	486.7	496.3	502.8	507.3
70°	375.9	369.9	375.0	382.8	389.1	393.6
75°	266.4	261.3	265.5	271.2	276.8	281.0
80°	162.6	158.8	162.2	166.3	169.9	173.4
85°	69.8	66.2	69.2	71.8	74.5	77.4
90°	0.5	1.2	1.4	1.8	2.0	2.6
95°	0.3	0.6	0.6	0.7	0.8	1.1
100°	0.3	0.5	0.5	0.4	0.7	1.1
105°	0.4	0.4	0.3	0.3	0.7	1.1
110°	0.5	0.4	0.3	0.3	0.7	1.0
115°	0.7	0.4	0.3	0.3	0.7	0.8
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°	0.8	0.4	0.3	0.3	0.6	0.5
135°	0.9	0.4	0.3	0.4	0.7	0.5
140°	1.0	0.8	0.7	0.9	1.4	0.7
145°	1.3	1.4	1.5	1.4	1.5	1.4
150°	1.6	1.4	1.5	1.5	1.6	1.4
155°	1.8	1.4	1.5	1.6	1.7	1.5
160°	2.2	1.5	1.5	1.6	1.8	1.6
165°	2.3	1.8	1.8	1.9	2.5	1.8
170°	2.6	1.9	2.3	2.7	2.7	1.8
175°	2.7	2.8	2.7	2.7	2.7	1.9
180°	1.9	1.9	1.9	1.9	1.9	1.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)