

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: P588682

Luminaire Tested: **22CGTS-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: P588682
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-MID-4000K
Description: 2X2 CGT SELECT TROFFER AT MID LUMEN OUTPUT AND 4000K COLOR SETTING

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

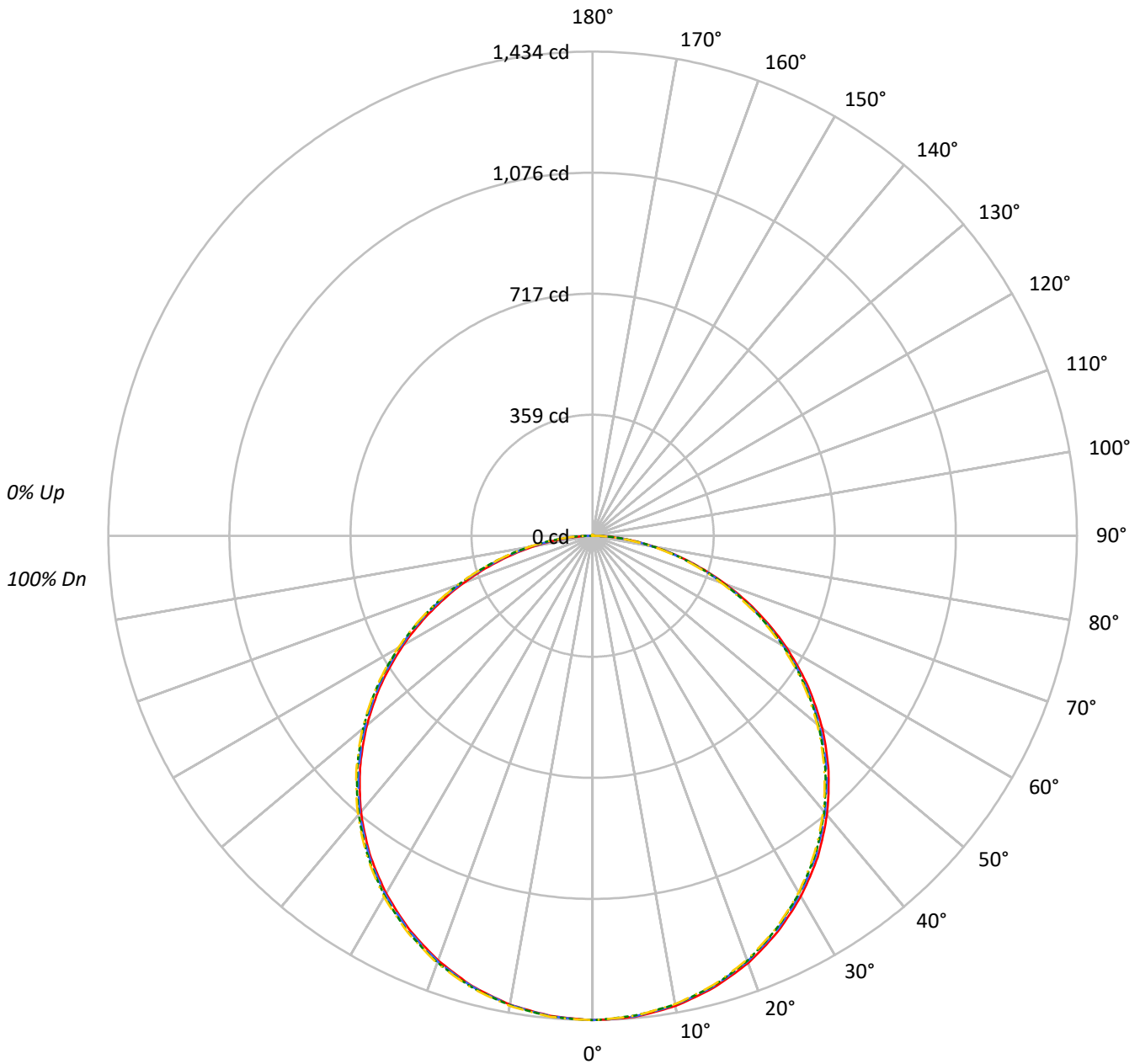
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 4228.1 lumens
Efficiency: 120.4%
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): 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: P588682

CATALOG NUMBER: 22CGTS-NUV-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P588682

CATALOG NUMBER: 22CGTS-NUV-MID-4000K

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	134	134	134	128	128	128	123	123	123	120																			
1	131	125	119	115	127	122	117	113	117	113	109	112	109	106	108	105	103	100																			
2	119	108	100	93	115	106	98	92	102	95	90	98	92	87	94	90	85	83																			
3	108	95	85	77	105	93	84	76	89	81	75	86	79	73	83	77	72	69																			
4	99	84	73	65	96	82	72	64	79	70	64	76	69	63	74	67	62	59																			
5	91	75	64	56	88	74	63	55	71	62	55	68	60	54	66	59	54	51																			
6	84	67	56	49	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	56	45	38	70	55	45	38	53	44	38	52	43	37	50	43	37	35																			
9	67	51	41	34	66	50	41	34	49	40	34	48	40	34	46	39	34	31																			
10	63	47	37	31	62	46	37	31	45	37	31	44	36	31	43	36	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3860	3860	3860	3860
5°	3863	3854	3855	3860
10°	3864	3850	3852	3858
15°	3860	3845	3845	3856
20°	3856	3835	3832	3852
25°	3845	3817	3817	3843
30°	3832	3797	3800	3827
35°	3816	3779	3779	3810
40°	3790	3747	3749	3785
45°	3760	3707	3707	3755
50°	3716	3654	3653	3713
55°	3652	3588	3581	3651
60°	3568	3500	3484	3570
65°	3450	3378	3351	3461
70°	3293	3228	3179	3326
75°	3091	3033	2955	3154
80°	2808	2788	2639	2952
85°	2418	2402	2161	2692



TEST NUMBER: P588682

CATALOG NUMBER: 22CGTS-NUV-MID-4000K

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	135.8	3.2	3.9	0°	1434	1434	1434	1434	1434	
10°-20°	390.2	9.2	11.1	5°	1430	1427	1427	1429	1430	136
20°-30°	594.6	14.1	16.9	15°	1386	1380	1380	1384	1386	391
30°-40°	722.3	17.1	20.6	25°	1295	1286	1286	1294	1295	597
40°-50°	755.6	17.9	21.5	35°	1162	1150	1150	1160	1162	726
50°-60°	688.2	16.3	19.6	45°	988	974	974	987	988	762
60°-70°	529.6	12.5	15.1	55°	778	765	763	778	778	695
70°-80°	312.1	7.4	8.9	65°	542	530	526	544	542	536
80°-90°	92.4	2.2	2.6	75°	297	292	284	303	297	315
90°-100°	1.0	0.0	0.0	85°	78	78	70	87	78	87
100°-110°	0.7	0.0	0.0	90°	2	1	1	3	2	11
110°-120°	0.8	0.0	0.0	95°	1	1	1	1	1	1
120°-130°	0.9	0.0	0.0	105°	0	1	1	1	0	1
130°-140°	0.9	0.0	0.0	115°	0	1	1	1	0	0
140°-150°	1.1	0.0	0.0	125°	0	1	1	1	0	0
150°-160°	1.0	0.0	0.0	135°	1	2	2	1	1	1
160°-170°	0.7	0.0	0.0	145°	2	2	2	2	2	1
170°-180°	0.3	0.0	0.0	155°	2	2	2	2	2	1
0°-30°	1120.6	26.5	31.9	165°	2	3	3	2	2	1
0°-40°	1843.0	43.6	52.5	175°	3	3	3	3	3	0
0°-60°	3286.8	77.7	93.6	180°	3	3	3	3	3	
0°-90°	4220.8	99.8	120.2							
90°-120°	2.5	0.1	0.1							
90°-150°	5.4	0.1	0.2							
90°-180°	7.0	0.2	0.2							
0°-180°	4228.1	100.0	120.4							



TEST NUMBER: P588682

CATALOG NUMBER: 22CGTS-NUV-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
5°	1430.2	1429.3	1428.6	1428.3	1426.6	1427.6	1427.1	1427.1	1427.1	1427.9	1428.2
10°	1414.0	1412.1	1410.4	1409.7	1409.1	1409.1	1408.2	1408.7	1409.8	1409.9	1410.6
15°	1385.7	1383.6	1381.5	1380.0	1380.0	1378.6	1377.9	1378.9	1380.2	1381.2	1382.2
20°	1346.6	1343.7	1340.6	1338.7	1339.3	1336.9	1336.1	1337.2	1338.0	1339.9	1341.3
25°	1295.1	1292.4	1289.6	1286.5	1285.7	1284.6	1283.4	1284.0	1285.7	1287.9	1289.7
30°	1233.1	1230.0	1226.8	1223.7	1222.0	1220.6	1219.9	1220.4	1222.8	1224.7	1227.6
35°	1161.7	1157.5	1153.6	1148.8	1150.3	1147.6	1145.9	1147.2	1150.5	1152.6	1155.2
40°	1079.0	1075.0	1070.2	1065.9	1066.8	1064.2	1063.0	1063.8	1067.2	1068.8	1072.5
45°	988.1	983.3	979.0	973.9	974.0	971.3	969.4	971.1	974.0	976.6	979.7
50°	887.6	882.1	877.4	872.2	872.8	869.8	867.8	869.1	872.6	874.9	879.9
55°	778.5	773.5	768.7	763.8	764.7	761.6	758.7	759.8	763.3	766.0	771.4
60°	662.9	657.6	652.4	647.8	650.3	646.7	644.0	643.9	647.4	650.6	657.2
65°	541.8	537.2	532.5	528.3	530.5	527.6	524.0	523.0	526.3	530.5	537.2
70°	418.5	413.9	410.6	407.0	410.3	406.7	403.2	401.5	404.0	408.6	416.0
75°	297.3	293.8	291.1	288.6	291.7	288.9	285.1	282.7	284.2	289.1	296.7
80°	181.2	178.4	178.4	176.9	179.9	177.0	172.7	169.2	170.3	174.9	183.4
85°	78.3	76.2	75.7	75.4	77.8	75.2	70.7	68.9	70.0	73.4	79.9
90°	1.9	1.6	1.5	1.4	0.6	0.6	0.6	0.6	0.6	0.6	1.3
95°	0.7	0.7	0.7	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6
105°	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.8
110°	0.5	0.5	0.6	0.5	0.9	1.0	1.1	0.9	0.8	0.9	1.1
115°	0.5	0.5	0.6	0.5	1.1	1.2	1.2	1.0	1.1	1.3	1.2
120°	0.5	0.5	0.6	0.5	1.2	1.4	1.4	1.0	1.2	1.2	1.5
125°	0.5	0.5	0.6	0.5	1.3	1.5	1.4	1.0	1.2	1.2	1.5
130°	0.5	0.5	0.6	0.5	1.4	1.8	1.6	1.3	1.4	1.6	1.7
135°	0.7	0.5	0.6	0.5	1.7	1.8	1.7	1.7	1.8	1.9	1.9
140°	1.2	0.9	0.6	0.7	1.8	1.9	1.9	1.9	1.9	2.1	2.0
145°	1.6	1.6	0.8	1.3	2.0	2.0	2.0	2.1	2.0	2.1	2.1
150°	1.6	1.6	1.6	1.6	2.2	2.3	2.4	2.4	2.1	2.4	2.4
155°	1.6	1.6	1.5	1.6	2.5	2.6	2.7	2.6	2.4	2.8	2.7
160°	1.6	1.6	1.5	1.6	2.9	3.0	3.0	2.6	2.8	2.8	3.1
165°	2.0	1.9	1.8	1.7	3.0	3.0	3.1	2.6	2.8	2.8	3.0
170°	2.2	2.3	2.0	2.2	3.1	3.0	3.2	2.6	2.8	2.8	3.1
175°	2.7	2.9	2.5	3.0	3.3	3.0	3.2	2.6	2.8	2.8	3.1
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



TEST NUMBER: P588682

CATALOG NUMBER: 22CGTS-NUV-MID-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
5°	1428.8	1429.0	1430.5	1430.2	1430.4	1430.2
10°	1411.7	1412.0	1413.9	1413.8	1414.0	1414.0
15°	1383.6	1384.0	1386.1	1385.9	1386.2	1385.7
20°	1344.5	1345.0	1346.9	1346.7	1347.0	1346.6
25°	1292.9	1294.3	1296.6	1296.3	1296.6	1295.1
30°	1230.8	1231.7	1234.5	1235.4	1235.2	1233.1
35°	1158.8	1159.7	1162.5	1163.0	1162.5	1161.7
40°	1076.9	1077.4	1080.3	1080.9	1080.3	1079.0
45°	984.8	986.8	989.1	990.2	989.0	988.1
50°	884.1	886.9	888.7	889.5	888.7	887.6
55°	776.7	778.3	780.9	781.6	780.1	778.5
60°	662.5	663.4	666.2	666.3	664.2	662.9
65°	543.3	543.6	547.0	546.3	543.8	541.8
70°	422.1	422.7	425.5	424.5	421.0	418.5
75°	303.9	303.4	306.1	304.4	300.8	297.3
80°	191.2	190.5	192.4	190.8	185.5	181.2
85°	88.0	87.2	88.9	86.3	81.9	78.3
90°	3.3	2.7	3.8	3.8	2.9	1.9
95°	0.6	0.8	0.7	0.7	0.8	0.7
100°	0.6	0.6	0.6	0.6	0.6	0.5
105°	0.6	0.6	0.6	0.6	0.5	0.5
110°	0.9	0.6	0.6	0.6	0.5	0.5
115°	1.0	0.6	0.6	0.6	0.5	0.5
120°	1.2	0.6	0.6	0.6	0.5	0.5
125°	1.3	0.6	0.6	0.6	0.5	0.5
130°	1.6	0.6	0.6	0.6	0.5	0.5
135°	1.7	0.6	0.6	0.6	0.6	0.7
140°	1.8	1.2	1.2	0.6	1.1	1.2
145°	2.0	1.5	1.6	0.9	1.5	1.6
150°	2.3	1.6	1.6	1.5	1.6	1.6
155°	2.6	1.6	1.6	1.5	1.6	1.6
160°	2.7	1.6	1.6	1.5	1.6	1.6
165°	2.7	1.8	1.8	1.7	1.9	2.0
170°	2.7	2.1	2.2	2.0	2.1	2.2
175°	2.7	2.8	3.1	2.4	2.8	2.7
180°	2.7	2.7	2.7	2.7	2.7	2.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)