

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: P563581

Luminaire Tested: **22CGTS-L3C3-MID-5000K**

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LCS210329025BSA)
Test Lab:
Issue Date: 8/1/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CGTS-L3C3-MID-5000K
Description: 2X2 CGTS WITH MID LUMEN SETTING AND 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

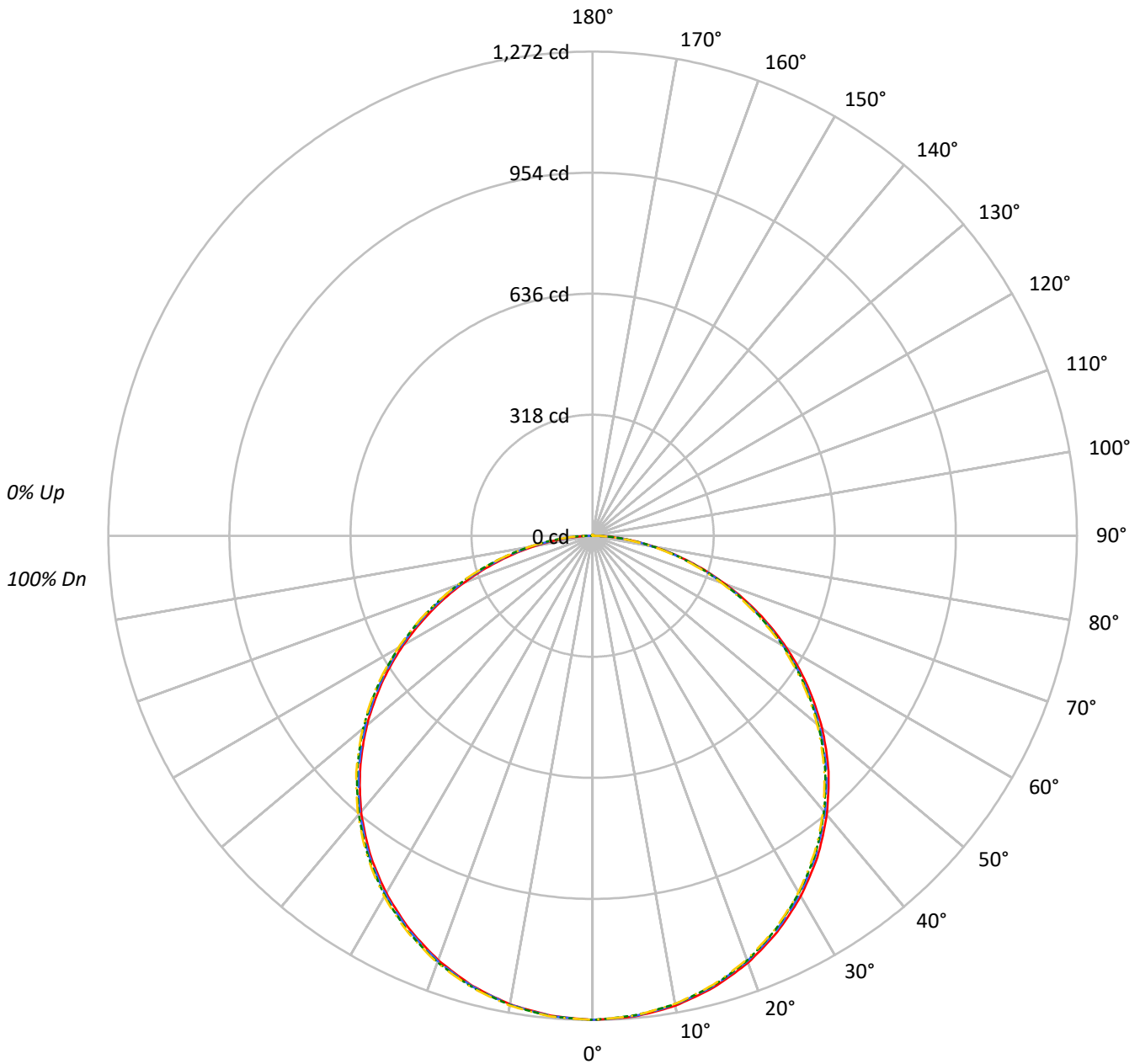
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 3748.0 lumens
Efficiency: 106.8%
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
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

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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	127	127	127	127	124	124	124	124	119	119	119	113	113	113	109	109	109	107																			
1	116	111	106	102	113	108	104	100	103	100	97	99	96	94	95	93	91	89																			
2	105	96	89	82	102	94	87	81	90	84	79	87	82	78	83	79	76	73																			
3	96	84	75	68	93	82	74	68	79	72	66	76	70	65	73	68	64	62																			
4	87	74	65	58	85	73	64	57	70	62	56	68	61	56	65	60	55	52																			
5	80	66	57	49	78	65	56	49	63	55	49	61	54	48	59	52	47	45																			
6	74	60	50	43	72	59	50	43	57	49	42	55	48	42	53	47	42	39																			
7	69	54	45	38	67	53	44	38	52	43	38	50	43	37	48	42	37	35																			
8	64	49	40	34	62	49	40	34	47	39	33	46	39	33	44	38	33	31																			
9	60	45	36	30	58	45	36	30	43	36	30	42	35	30	41	35	30	28																			
10	56	42	33	28	55	41	33	27	40	33	27	39	32	27	38	32	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3422	3422	3422	3422
5°	3425	3416	3417	3422
10°	3425	3413	3415	3420
15°	3422	3408	3409	3418
20°	3418	3400	3397	3414
25°	3409	3384	3384	3407
30°	3397	3366	3368	3393
35°	3383	3350	3350	3377
40°	3360	3322	3323	3355
45°	3333	3286	3286	3329
50°	3294	3239	3239	3291
55°	3238	3180	3174	3237
60°	3162	3102	3089	3165
65°	3058	2995	2971	3068
70°	2919	2862	2818	2948
75°	2740	2688	2620	2797
80°	2490	2472	2338	2617
85°	2143	2127	1917	2387



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	120.4	3.2	3.4	0°	1272	1272	1272	1272	1272	
10°-20°	345.9	9.2	9.9	5°	1268	1265	1265	1267	1268	121
20°-30°	527.1	14.1	15.0	15°	1228	1223	1224	1227	1228	347
30°-40°	640.3	17.1	18.2	25°	1148	1140	1140	1147	1148	529
40°-50°	669.8	17.9	19.1	35°	1030	1020	1020	1028	1030	644
50°-60°	610.1	16.3	17.4	45°	876	863	863	875	876	675
60°-70°	469.5	12.5	13.4	55°	690	678	677	690	690	616
70°-80°	276.7	7.4	7.9	65°	480	470	467	482	480	475
80°-90°	81.9	2.2	2.3	75°	264	258	252	269	264	279
90°-100°	0.9	0.0	0.0	85°	69	69	62	77	69	77
100°-110°	0.6	0.0	0.0	90°	2	0	1	2	2	10
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	1	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	2	2	0	1	1
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°	993.4	26.5	28.3	165°	2	3	2	2	2	0
0°-40°	1633.7	43.6	46.5	175°	2	3	2	2	2	0
0°-60°	2913.6	77.7	83.0	180°	2	2	2	2	2	
0°-90°	3741.6	99.8	106.6							
90°-120°	2.2	0.1	0.1							
90°-150°	4.7	0.1	0.1							
90°-180°	6.0	0.2	0.2							
0°-180°	3748.0	100.0	106.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
5°	1267.8	1267.0	1266.4	1266.2	1264.6	1265.5	1265.1	1265.1	1265.1	1265.8	1266.1
10°	1253.5	1251.8	1250.3	1249.7	1249.1	1249.1	1248.4	1248.7	1249.7	1249.8	1250.5
15°	1228.4	1226.5	1224.7	1223.3	1223.4	1222.1	1221.5	1222.3	1223.5	1224.4	1225.3
20°	1193.7	1191.2	1188.4	1186.7	1187.2	1185.1	1184.4	1185.4	1186.1	1187.8	1189.0
25°	1148.1	1145.7	1143.2	1140.5	1139.8	1138.7	1137.7	1138.3	1139.7	1141.7	1143.3
30°	1093.1	1090.3	1087.5	1084.8	1083.3	1082.0	1081.4	1081.8	1084.0	1085.7	1088.2
35°	1029.8	1026.1	1022.7	1018.4	1019.7	1017.3	1015.8	1016.9	1019.9	1021.7	1024.0
40°	956.5	953.0	948.7	944.9	945.6	943.4	942.3	943.1	946.1	947.5	950.8
45°	875.9	871.7	867.9	863.3	863.4	861.0	859.3	860.8	863.4	865.7	868.5
50°	786.9	782.0	777.8	773.2	773.7	771.0	769.3	770.5	773.6	775.6	780.0
55°	690.1	685.7	681.4	677.1	677.9	675.2	672.6	673.6	676.6	679.1	683.8
60°	587.6	582.9	578.3	574.2	576.4	573.3	570.9	570.8	573.9	576.8	582.6
65°	480.3	476.2	472.0	468.4	470.3	467.7	464.5	463.6	466.6	470.2	476.3
70°	371.0	366.9	364.0	360.8	363.7	360.5	357.4	356.0	358.2	362.2	368.8
75°	263.5	260.4	258.1	255.8	258.5	256.1	252.7	250.6	252.0	256.3	263.0
80°	160.7	158.2	158.1	156.8	159.5	156.9	153.1	150.0	150.9	155.0	162.6
85°	69.4	67.5	67.1	66.9	68.9	66.7	62.7	61.1	62.1	65.0	70.8
90°	1.7	1.4	1.3	1.3	0.5	0.5	0.6	0.6	0.6	0.5	1.2
95°	0.7	0.7	0.7	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	0.7	0.6	0.5	0.5	0.5	0.5
105°	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.6	0.7	0.7	0.7
110°	0.4	0.4	0.5	0.4	0.8	0.9	1.0	0.8	0.7	0.8	1.0
115°	0.4	0.4	0.5	0.4	1.0	1.1	1.1	0.9	1.0	1.2	1.1
120°	0.4	0.4	0.5	0.4	1.1	1.2	1.2	0.9	1.1	1.1	1.3
125°	0.4	0.4	0.5	0.4	1.1	1.3	1.2	0.9	1.1	1.1	1.3
130°	0.4	0.4	0.5	0.4	1.2	1.6	1.4	1.2	1.2	1.4	1.5
135°	0.7	0.4	0.5	0.4	1.5	1.6	1.5	1.5	1.6	1.7	1.6
140°	1.1	0.8	0.5	0.7	1.6	1.7	1.6	1.6	1.6	1.9	1.8
145°	1.4	1.4	0.7	1.1	1.8	1.8	1.8	1.9	1.8	1.9	1.9
150°	1.4	1.4	1.4	1.4	2.0	2.1	2.1	2.1	1.9	2.1	2.1
155°	1.4	1.4	1.3	1.4	2.2	2.3	2.4	2.3	2.1	2.5	2.4
160°	1.4	1.4	1.3	1.4	2.5	2.6	2.6	2.3	2.5	2.5	2.7
165°	1.8	1.7	1.6	1.5	2.6	2.6	2.7	2.3	2.5	2.5	2.6
170°	2.0	2.0	1.8	2.0	2.7	2.6	2.9	2.3	2.5	2.5	2.7
175°	2.4	2.5	2.2	2.6	3.0	2.6	2.9	2.3	2.5	2.5	2.7
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
5°	1266.6	1266.7	1268.1	1267.8	1268.0	1267.8
10°	1251.4	1251.7	1253.3	1253.3	1253.5	1253.5
15°	1226.5	1226.9	1228.7	1228.5	1228.8	1228.4
20°	1191.9	1192.3	1194.0	1193.8	1194.0	1193.7
25°	1146.1	1147.3	1149.4	1149.2	1149.4	1148.1
30°	1091.0	1091.9	1094.4	1095.2	1094.9	1093.1
35°	1027.2	1028.0	1030.6	1030.9	1030.6	1029.8
40°	954.7	955.1	957.7	958.2	957.7	956.5
45°	873.0	874.8	876.8	877.8	876.7	875.9
50°	783.7	786.2	787.8	788.5	787.8	786.9
55°	688.5	689.9	692.2	692.9	691.6	690.1
60°	587.3	588.1	590.6	590.7	588.8	587.6
65°	481.6	481.9	484.9	484.3	482.1	480.3
70°	374.2	374.7	377.2	376.3	373.2	371.0
75°	269.4	269.0	271.3	269.8	266.7	263.5
80°	169.5	168.9	170.6	169.1	164.4	160.7
85°	78.0	77.3	78.8	76.5	72.6	69.4
90°	3.0	2.4	3.3	3.4	2.6	1.7
95°	0.5	0.7	0.7	0.7	0.7	0.7
100°	0.5	0.5	0.6	0.6	0.5	0.4
105°	0.6	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°	1.1	0.5	0.5	0.5	0.4	0.4
125°	1.2	0.5	0.5	0.5	0.4	0.4
130°	1.4	0.5	0.5	0.5	0.4	0.4
135°	1.5	0.5	0.5	0.5	0.5	0.7
140°	1.6	1.1	1.1	0.5	1.0	1.1
145°	1.8	1.3	1.4	0.8	1.3	1.4
150°	2.0	1.4	1.4	1.3	1.4	1.4
155°	2.3	1.4	1.4	1.3	1.4	1.4
160°	2.4	1.4	1.4	1.3	1.4	1.4
165°	2.4	1.6	1.6	1.5	1.6	1.8
170°	2.4	1.9	2.0	1.8	1.9	2.0
175°	2.4	2.5	2.7	2.1	2.5	2.4
180°	2.4	2.4	2.4	2.4	2.4	2.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)