

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: P563580

Luminaire Tested: **22CGTS-L3C3-MID-4000K**

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563580
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-4000K
Description: 2X2 CGTS WITH MID LUMEN SETTING AND 4000K CCT

Light Source: -
Ballast/Driver: -

Summary

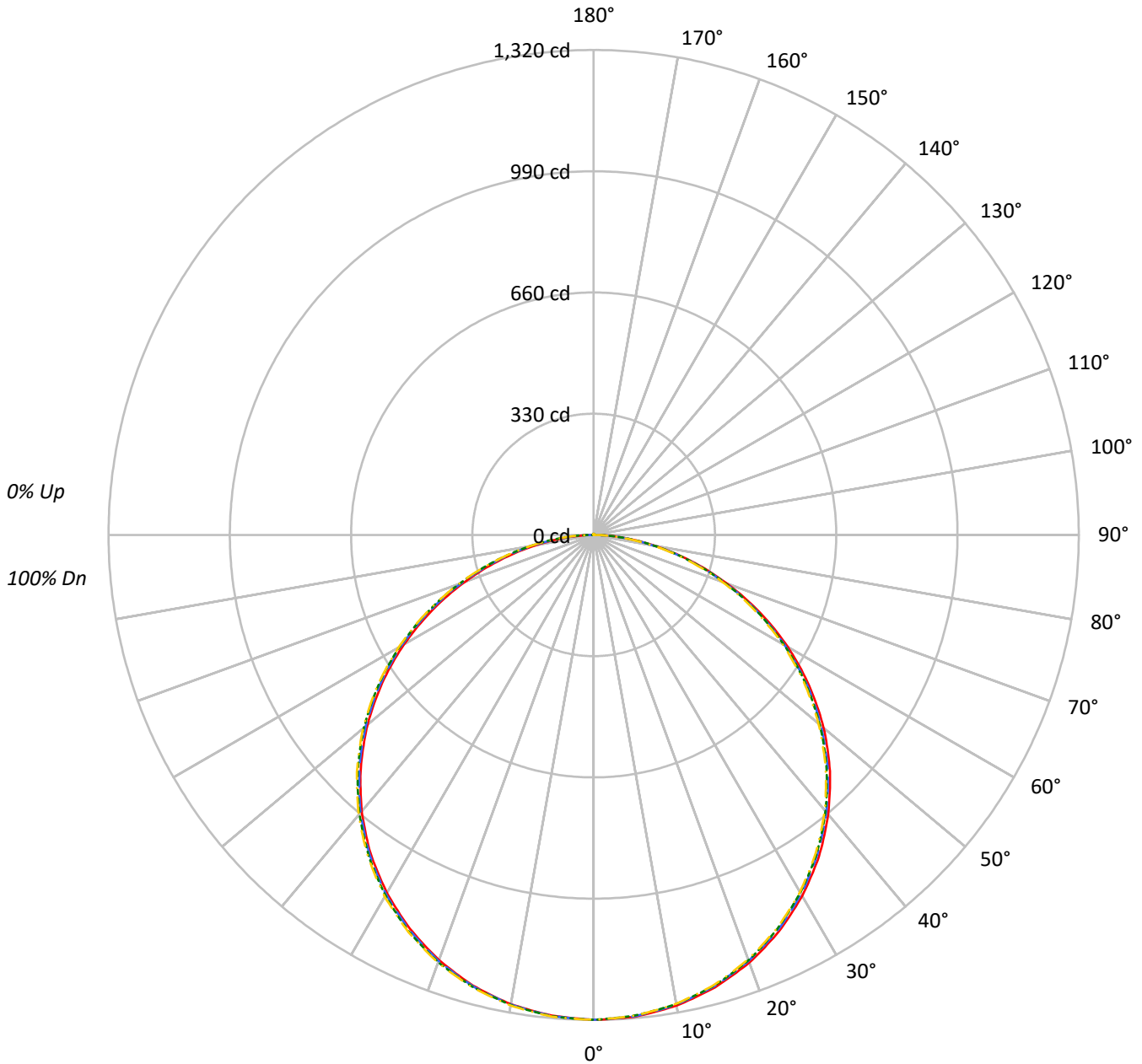
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 3890.0 lumens
Efficiency: 110.8%
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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	132	132	132	132	129	129	129	129	123	123	123	118	118	118	113	113	113	111																			
1	120	115	110	105	117	112	108	104	107	104	100	103	100	97	99	97	94	92																			
2	109	100	92	85	106	98	90	84	94	88	82	90	85	80	86	82	79	76																			
3	99	87	78	71	96	86	77	70	82	75	69	79	73	68	76	71	66	64																			
4	91	77	67	60	88	76	66	59	73	65	58	70	63	58	68	62	57	54																			
5	83	69	59	51	81	68	58	51	65	57	50	63	56	50	61	54	49	47																			
6	77	62	52	45	75	61	51	44	59	50	44	57	49	44	55	48	43	41																			
7	71	56	46	39	69	55	46	39	53	45	39	52	44	39	50	44	38	36																			
8	66	51	42	35	65	50	41	35	49	41	35	47	40	34	46	39	34	32																			
9	62	47	38	32	60	46	37	31	45	37	31	44	36	31	43	36	31	29																			
10	58	43	34	29	57	43	34	28	42	34	28	41	33	28	40	33	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3552	3552	3552	3552
5°	3555	3546	3547	3551
10°	3555	3542	3544	3550
15°	3552	3537	3538	3548
20°	3548	3529	3525	3544
25°	3538	3513	3512	3536
30°	3525	3494	3496	3521
35°	3511	3477	3477	3505
40°	3487	3448	3449	3482
45°	3460	3410	3411	3455
50°	3419	3362	3361	3416
55°	3360	3301	3294	3359
60°	3282	3220	3205	3285
65°	3174	3108	3083	3184
70°	3030	2970	2924	3060
75°	2844	2790	2719	2903
80°	2583	2565	2427	2717
85°	2226	2208	1988	2479



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	125.0	3.2	3.6	0°	1320	1320	1320	1320	1320	
10°-20°	359.0	9.2	10.2	5°	1316	1313	1313	1315	1316	125
20°-30°	547.1	14.1	15.6	15°	1275	1270	1270	1273	1275	360
30°-40°	664.6	17.1	18.9	25°	1192	1183	1183	1191	1192	549
40°-50°	695.2	17.9	19.8	35°	1069	1058	1058	1067	1069	668
50°-60°	633.2	16.3	18.0	45°	909	896	896	908	909	701
60°-70°	487.3	12.5	13.9	55°	716	704	702	716	716	640
70°-80°	287.2	7.4	8.2	65°	498	488	484	500	498	493
80°-90°	85.0	2.2	2.4	75°	274	268	262	279	274	290
90°-100°	0.9	0.0	0.0	85°	72	72	64	80	72	80
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°	0.8	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°	1.0	0.0	0.0	125°	0	1	1	0	0	0
150°-160°	0.9	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°	1031.0	26.5	29.4	165°	2	3	3	2	2	1
0°-40°	1695.6	43.6	48.3	175°	2	3	3	3	2	0
0°-60°	3024.0	77.7	86.1	180°	2	2	2	2	2	
0°-90°	3883.4	99.8	110.6							
90°-120°	2.3	0.1	0.1							
90°-150°	4.8	0.1	0.1							
90°-180°	7.0	0.2	0.2							
0°-180°	3890.0	100.0	110.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8
5°	1315.9	1315.1	1314.4	1314.2	1312.6	1313.5	1313.0	1313.0	1313.0	1313.7	1314.0
10°	1301.0	1299.2	1297.7	1297.0	1296.4	1296.4	1295.6	1296.1	1297.1	1297.2	1297.9
15°	1274.9	1273.0	1271.1	1269.7	1269.7	1268.4	1267.7	1268.6	1269.9	1270.8	1271.7
20°	1238.9	1236.3	1233.4	1231.6	1232.2	1230.0	1229.2	1230.3	1231.1	1232.8	1234.0
25°	1191.6	1189.1	1186.5	1183.7	1183.0	1181.9	1180.8	1181.4	1182.9	1184.9	1186.6
30°	1134.5	1131.6	1128.7	1125.8	1124.4	1123.0	1122.4	1122.8	1125.0	1126.8	1129.5
35°	1068.8	1065.0	1061.4	1057.0	1058.3	1055.9	1054.3	1055.5	1058.5	1060.4	1062.8
40°	992.7	989.1	984.7	980.7	981.5	979.1	978.1	978.8	981.9	983.4	986.8
45°	909.1	904.7	900.7	896.0	896.1	893.6	891.9	893.5	896.2	898.5	901.4
50°	816.7	811.6	807.3	802.5	803.0	800.2	798.4	799.7	802.9	805.0	809.6
55°	716.2	711.7	707.3	702.8	703.5	700.7	698.1	699.1	702.2	704.8	709.7
60°	609.9	605.0	600.2	596.0	598.3	595.0	592.5	592.4	595.6	598.6	604.6
65°	498.5	494.3	489.9	486.1	488.1	485.4	482.1	481.2	484.2	488.1	494.3
70°	385.1	380.8	377.8	374.4	377.5	374.2	371.0	369.4	371.7	376.0	382.8
75°	273.5	270.3	267.9	265.5	268.3	265.8	262.3	260.1	261.5	266.0	273.0
80°	166.7	164.2	164.1	162.8	165.5	162.8	158.9	155.7	156.6	160.9	168.8
85°	72.1	70.1	69.6	69.4	71.5	69.2	65.0	63.4	64.4	67.5	73.5
90°	1.7	1.4	1.4	1.3	0.5	0.5	0.6	0.6	0.6	0.5	1.2
95°	0.7	0.7	0.7	0.8	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	0.8
110°	0.4	0.4	0.5	0.4	0.9	0.9	1.0	0.9	0.8	0.9	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	1.3	1.3	0.9	1.1	1.1	1.4
125°	0.4	0.4	0.5	0.4	1.2	1.4	1.3	0.9	1.1	1.1	1.4
130°	0.4	0.4	0.5	0.4	1.3	1.6	1.4	1.2	1.3	1.4	1.5
135°	0.7	0.4	0.5	0.4	1.5	1.6	1.5	1.5	1.6	1.8	1.7
140°	1.1	0.9	0.5	0.7	1.6	1.8	1.7	1.7	1.7	2.0	1.9
145°	1.4	1.4	0.8	1.2	1.9	1.9	1.9	2.0	1.9	2.0	2.0
150°	1.4	1.4	1.4	1.4	2.0	2.1	2.2	2.2	2.0	2.2	2.2
155°	1.4	1.4	1.4	1.4	2.3	2.4	2.5	2.4	2.2	2.6	2.5
160°	1.4	1.4	1.4	1.4	2.6	2.7	2.7	2.4	2.6	2.6	2.8
165°	1.9	1.8	1.6	1.5	2.7	2.7	2.8	2.4	2.6	2.6	2.7
170°	2.0	2.1	1.9	2.0	2.8	2.7	3.0	2.4	2.6	2.6	2.8
175°	2.5	2.6	2.3	2.7	3.1	2.7	3.0	2.4	2.6	2.6	2.8
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1319.8	1319.8	1319.8	1319.8	1319.8	1319.8
5°	1314.6	1314.7	1316.2	1315.9	1316.0	1315.9
10°	1298.9	1299.1	1300.8	1300.7	1301.0	1301.0
15°	1273.0	1273.4	1275.3	1275.1	1275.4	1274.9
20°	1237.0	1237.5	1239.3	1239.0	1239.3	1238.9
25°	1189.6	1190.8	1193.0	1192.7	1193.0	1191.6
30°	1132.4	1133.3	1135.8	1136.7	1136.4	1134.5
35°	1066.1	1067.0	1069.6	1070.0	1069.6	1068.8
40°	990.8	991.3	993.9	994.5	994.0	992.7
45°	906.0	907.9	910.1	911.0	909.9	909.1
50°	813.4	816.0	817.7	818.4	817.7	816.7
55°	714.6	716.0	718.5	719.1	717.8	716.2
60°	609.6	610.3	613.0	613.1	611.1	609.9
65°	499.9	500.1	503.3	502.7	500.3	498.5
70°	388.4	388.9	391.5	390.5	387.4	385.1
75°	279.6	279.2	281.6	280.1	276.8	273.5
80°	175.9	175.3	177.1	175.5	170.7	166.7
85°	81.0	80.3	81.8	79.4	75.4	72.1
90°	3.1	2.5	3.5	3.5	2.7	1.7
95°	0.5	0.8	0.7	0.7	0.8	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°	0.9	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°	1.9	1.4	1.4	0.9	1.4	1.4
150°	2.1	1.4	1.4	1.4	1.4	1.4
155°	2.4	1.4	1.4	1.4	1.4	1.4
160°	2.5	1.4	1.4	1.4	1.4	1.4
165°	2.5	1.6	1.6	1.5	1.7	1.9
170°	2.5	2.0	2.0	1.9	2.0	2.0
175°	2.5	2.6	2.8	2.2	2.6	2.5
180°	2.5	2.5	2.5	2.5	2.5	2.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)