

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: P563579

Luminaire Tested: **22CGTS-L3C3-MID-3500K**

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563579
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-3500K
Description: 2X2 CGTS WITH MID LUMEN SETTING AND 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

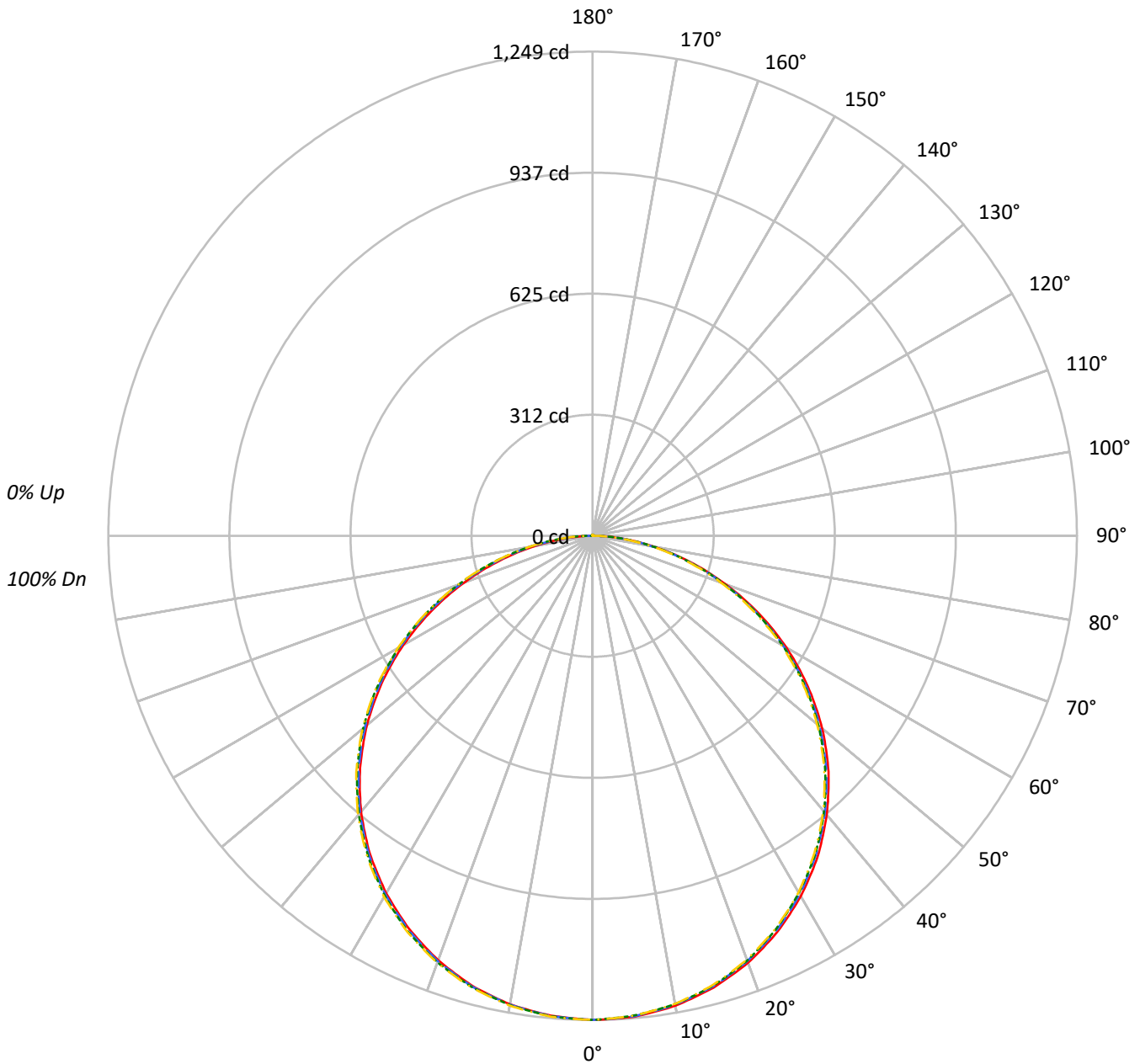
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 3681.0 lumens
Efficiency: 104.9%
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.2
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	125	125	125	125	122	122	122	122	116	116	116	111	111	111	107	107	107	105																			
1	114	109	104	100	111	106	102	98	102	98	95	97	95	92	94	91	89	87																			
2	103	94	87	81	100	92	86	80	89	83	78	85	80	76	82	78	74	72																			
3	94	83	74	67	91	81	73	66	78	71	65	75	69	64	72	67	63	60																			
4	86	73	64	57	83	72	63	56	69	61	55	66	60	55	64	58	54	51																			
5	79	65	56	49	77	64	55	48	62	54	48	60	53	47	58	52	47	44																			
6	73	59	49	42	71	58	49	42	56	48	42	54	47	41	52	46	41	39																			
7	67	53	44	37	66	52	43	37	51	43	37	49	42	37	48	41	36	34																			
8	63	48	39	33	61	48	39	33	46	38	33	45	38	33	44	37	32	30																			
9	59	44	36	30	57	44	35	30	43	35	30	41	34	29	40	34	29	27																			
10	55	41	33	27	54	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3361	3361	3361	3361
5°	3364	3355	3356	3361
10°	3364	3352	3354	3359
15°	3361	3347	3348	3357
20°	3357	3339	3336	3353
25°	3348	3324	3324	3346
30°	3336	3306	3308	3332
35°	3323	3290	3291	3317
40°	3300	3262	3264	3295
45°	3274	3227	3227	3269
50°	3235	3181	3180	3233
55°	3179	3123	3118	3179
60°	3106	3047	3033	3109
65°	3004	2941	2918	3014
70°	2867	2810	2768	2895
75°	2691	2640	2573	2747
80°	2445	2427	2297	2571
85°	2106	2090	1883	2343



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	90°	180°	270°	360°	Flux
0°-10°	118.2	3.2	3.4	0°	1249	1249	1249	1249	
10°-20°	339.7	9.2	9.7	5°	1245	1242	1242	1244	118
20°-30°	517.7	14.1	14.7	15°	1206	1202	1202	1205	341
30°-40°	628.9	17.1	17.9	25°	1128	1119	1119	1127	520
40°-50°	657.8	17.9	18.7	35°	1011	1002	1002	1010	633
50°-60°	599.2	16.3	17.1	45°	860	848	848	859	663
60°-70°	461.1	12.5	13.1	55°	678	666	664	678	605
70°-80°	271.7	7.4	7.7	65°	472	462	458	473	467
80°-90°	80.4	2.2	2.3	75°	259	254	248	264	274
90°-100°	0.9	0.0	0.0	85°	68	68	61	76	76
100°-110°	0.6	0.0	0.0	90°	2	0	1	2	10
110°-120°	0.7	0.0	0.0	95°	1	0	0	1	1
120°-130°	0.7	0.0	0.0	105°	0	1	1	0	0
130°-140°	0.8	0.0	0.0	115°	0	1	1	0	0
140°-150°	0.9	0.0	0.0	125°	0	1	1	0	0
150°-160°	0.8	0.0	0.0	135°	1	1	2	0	0
160°-170°	0.6	0.0	0.0	145°	1	2	2	1	1
170°-180°	0.2	0.0	0.0	155°	1	2	2	1	1
0°-30°	975.7	26.5	27.8	165°	2	3	2	2	0
0°-40°	1604.5	43.6	45.7	175°	2	3	2	2	0
0°-60°	2861.6	77.7	81.5	180°	2	2	2	2	
0°-90°	3674.8	99.8	104.7						
90°-120°	2.2	0.1	0.1						
90°-150°	4.6	0.1	0.1						
90°-180°	6.0	0.2	0.2						
0°-180°	3681.0	100.0	104.9						



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
5°	1245.2	1244.4	1243.7	1243.5	1242.0	1242.9	1242.5	1242.5	1242.5	1243.1	1243.4
10°	1231.1	1229.4	1227.9	1227.4	1226.8	1226.8	1226.0	1226.4	1227.4	1227.5	1228.1
15°	1206.4	1204.6	1202.8	1201.5	1201.5	1200.3	1199.6	1200.5	1201.7	1202.5	1203.4
20°	1172.3	1169.9	1167.1	1165.5	1166.0	1163.9	1163.2	1164.2	1164.9	1166.6	1167.7
25°	1127.6	1125.2	1122.7	1120.1	1119.4	1118.4	1117.4	1117.9	1119.4	1121.2	1122.9
30°	1073.6	1070.8	1068.1	1065.4	1063.9	1062.6	1062.1	1062.5	1064.6	1066.3	1068.8
35°	1011.4	1007.8	1004.4	1000.2	1001.5	999.1	997.6	998.7	1001.7	1003.4	1005.7
40°	939.4	935.9	931.8	928.0	928.7	926.5	925.5	926.2	929.2	930.6	933.8
45°	860.3	856.1	852.4	847.9	848.0	845.6	844.0	845.5	848.0	850.2	853.0
50°	772.8	768.0	763.9	759.4	759.9	757.3	755.5	756.7	759.7	761.7	766.1
55°	677.7	673.5	669.3	665.0	665.7	663.1	660.6	661.5	664.5	666.9	671.6
60°	577.1	572.5	568.0	564.0	566.1	563.1	560.7	560.6	563.6	566.4	572.2
65°	471.7	467.7	463.6	460.0	461.9	459.3	456.2	455.3	458.2	461.8	467.7
70°	364.4	360.4	357.5	354.3	357.2	354.1	351.0	349.6	351.8	355.8	362.2
75°	258.8	255.8	253.5	251.2	253.9	251.5	248.2	246.2	247.5	251.7	258.3
80°	157.8	155.3	155.3	154.0	156.6	154.1	150.4	147.3	148.2	152.2	159.7
85°	68.2	66.3	65.9	65.7	67.7	65.5	61.5	60.0	61.0	63.9	69.5
90°	1.6	1.4	1.3	1.2	0.5	0.5	0.6	0.6	0.6	0.5	1.1
95°	0.6	0.6	0.6	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	0.6	0.6	0.5	0.5	0.5	0.5
105°	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	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	1.0	1.0	0.9	1.0	1.1	1.0
120°	0.4	0.4	0.5	0.4	1.0	1.2	1.2	0.9	1.0	1.0	1.3
125°	0.4	0.4	0.5	0.4	1.1	1.3	1.2	0.9	1.0	1.0	1.3
130°	0.4	0.4	0.5	0.4	1.2	1.5	1.4	1.1	1.2	1.4	1.5
135°	0.6	0.4	0.5	0.4	1.4	1.5	1.5	1.5	1.5	1.7	1.6
140°	1.0	0.8	0.5	0.6	1.5	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	1.9	2.0	2.1	2.1	1.9	2.1	2.1
155°	1.4	1.4	1.3	1.4	2.2	2.3	2.3	2.3	2.1	2.4	2.3
160°	1.4	1.4	1.3	1.4	2.5	2.6	2.6	2.3	2.4	2.4	2.7
165°	1.8	1.7	1.5	1.5	2.6	2.6	2.7	2.3	2.4	2.4	2.6
170°	1.9	2.0	1.8	1.9	2.7	2.6	2.8	2.3	2.4	2.4	2.7
175°	2.3	2.5	2.2	2.6	2.9	2.6	2.8	2.3	2.4	2.4	2.7
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
5°	1244.0	1244.1	1245.4	1245.2	1245.3	1245.2
10°	1229.1	1229.3	1230.9	1230.9	1231.1	1231.1
15°	1204.6	1205.0	1206.8	1206.6	1206.8	1206.4
20°	1170.6	1171.0	1172.7	1172.5	1172.7	1172.3
25°	1125.7	1126.8	1128.9	1128.6	1128.9	1127.6
30°	1071.5	1072.4	1074.8	1075.6	1075.4	1073.6
35°	1008.9	1009.6	1012.1	1012.5	1012.1	1011.4
40°	937.6	938.0	940.5	941.0	940.6	939.4
45°	857.4	859.1	861.2	862.1	861.0	860.3
50°	769.7	772.2	773.7	774.5	773.7	772.8
55°	676.2	677.6	679.9	680.5	679.2	677.7
60°	576.8	577.6	580.0	580.1	578.3	577.1
65°	473.0	473.3	476.3	475.6	473.4	471.7
70°	367.5	368.0	370.5	369.5	366.6	364.4
75°	264.6	264.2	266.5	265.0	261.9	258.8
80°	166.5	165.9	167.5	166.1	161.5	157.8
85°	76.6	75.9	77.4	75.1	71.3	68.2
90°	2.9	2.3	3.3	3.4	2.5	1.6
95°	0.5	0.7	0.6	0.6	0.7	0.6
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°	1.0	0.5	0.5	0.5	0.4	0.4
125°	1.1	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	0.6
140°	1.5	1.0	1.0	0.5	1.0	1.0
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°	2.3	1.4	1.4	1.3	1.4	1.4
165°	2.3	1.5	1.5	1.5	1.6	1.8
170°	2.3	1.9	1.9	1.8	1.9	1.9
175°	2.3	2.4	2.7	2.1	2.4	2.3
180°	2.3	2.3	2.3	2.3	2.3	2.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)