

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: P563574

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

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563574
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-HIGH-4000K
Description: 2X2 CGTS WITH HIGH LUMEN SETTING AND 4000K CCT

Light Source: -
Ballast/Driver: -

Summary

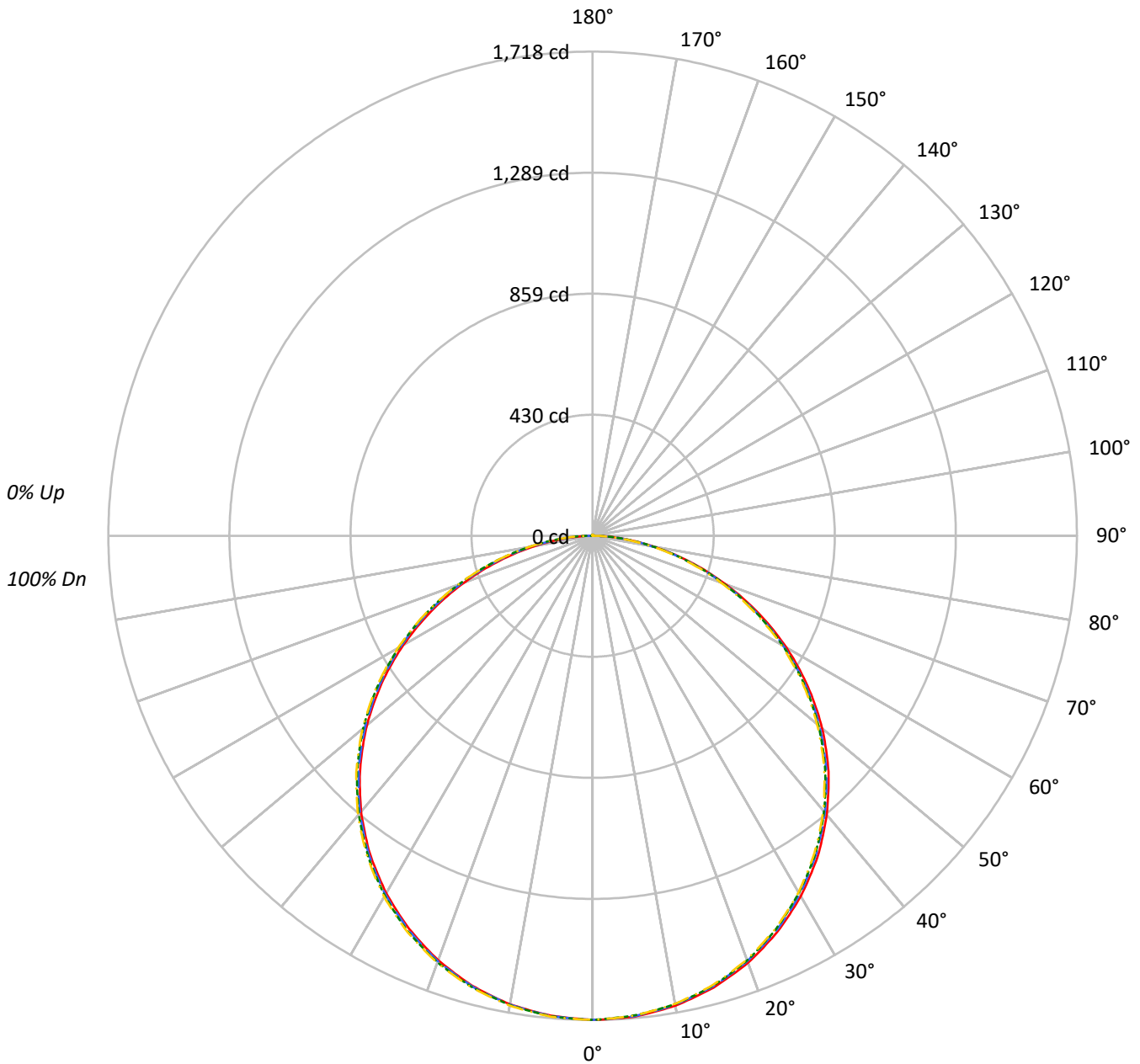
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 5063.0 lumens
Efficiency: 144.2%
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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	172	172	172	172	168	168	168	168	160	160	160	153	153	153	147	147	147	144				144															
1	156	149	143	137	152	146	140	135	140	135	131	134	130	127	129	126	123	120				120															
2	142	130	120	111	138	127	118	110	122	114	107	117	110	105	113	107	102	99				99															
3	129	114	102	92	126	111	100	91	107	97	90	103	95	88	99	92	86	83				83															
4	118	101	88	78	115	99	87	77	95	84	76	91	82	75	88	80	74	71				71															
5	109	90	77	67	105	88	76	66	85	74	66	82	72	65	79	71	64	61				61															
6	100	81	68	58	97	79	67	58	77	66	57	74	64	57	72	63	56	53				53															
7	93	73	60	51	90	72	60	51	70	59	51	67	58	50	65	57	50	47				47															
8	86	67	54	46	84	66	54	46	64	53	45	62	52	45	60	51	45	42				42															
9	81	61	49	41	79	60	49	41	59	48	41	57	47	40	55	47	40	38				38															
10	76	56	45	37	74	56	45	37	54	44	37	53	43	37	51	43	36	34				34															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4622	4622	4622	4622
5°	4626	4615	4616	4622
10°	4627	4611	4613	4620
15°	4623	4604	4605	4617
20°	4618	4593	4588	4612
25°	4605	4572	4571	4602
30°	4589	4547	4550	4583
35°	4570	4525	4526	4562
40°	4539	4487	4489	4532
45°	4503	4438	4439	4497
50°	4450	4376	4375	4446
55°	4373	4296	4288	4373
60°	4272	4191	4172	4275
65°	4131	4045	4013	4145
70°	3943	3866	3806	3983
75°	3701	3632	3539	3778
80°	3363	3338	3160	3535
85°	2896	2875	2590	3226



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	162.6	3.2	4.6	0°	1718	1718	1718	1718	1718	
10°-20°	467.3	9.2	13.3	5°	1713	1708	1709	1711	1713	163
20°-30°	712.1	14.1	20.3	15°	1659	1653	1653	1657	1659	469
30°-40°	865.0	17.1	24.6	25°	1551	1540	1540	1550	1551	715
40°-50°	904.8	17.9	25.8	35°	1391	1378	1378	1389	1391	870
50°-60°	824.1	16.3	23.5	45°	1183	1166	1166	1182	1183	912
60°-70°	634.2	12.5	18.1	55°	932	916	914	932	932	833
70°-80°	373.7	7.4	10.6	65°	649	635	630	651	649	642
80°-90°	110.6	2.2	3.2	75°	356	349	340	363	356	377
90°-100°	1.2	0.0	0.0	85°	94	93	84	104	94	104
100°-110°	0.8	0.0	0.0	90°	2	1	1	3	2	14
110°-120°	1.0	0.0	0.0	95°	1	1	1	1	1	1
120°-130°	1.0	0.0	0.0	105°	0	1	1	1	0	1
130°-140°	1.1	0.0	0.0	115°	0	1	1	1	0	0
140°-150°	1.3	0.0	0.0	125°	0	2	1	1	0	0
150°-160°	1.1	0.0	0.0	135°	1	2	2	1	1	1
160°-170°	0.8	0.0	0.0	145°	2	2	2	2	2	1
170°-180°	0.3	0.0	0.0	155°	2	3	3	2	2	1
0°-30°	1342.0	26.5	38.2	165°	2	4	3	2	2	1
0°-40°	2207.0	43.6	62.9	175°	3	4	3	3	3	0
0°-60°	3935.9	77.7	112.1	180°	3	3	3	3	3	
0°-90°	5054.4	99.8	144.0							
90°-120°	3.0	0.1	0.1							
90°-150°	6.4	0.1	0.2							
90°-180°	9.0	0.2	0.3							
0°-180°	5063.0	100.0	144.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7
5°	1712.7	1711.6	1710.7	1710.4	1708.3	1709.5	1709.0	1709.0	1708.9	1709.9	1710.3
10°	1693.2	1691.0	1689.0	1688.2	1687.4	1687.4	1686.3	1686.9	1688.2	1688.3	1689.2
15°	1659.4	1656.9	1654.3	1652.6	1652.6	1650.9	1650.0	1651.2	1652.8	1654.0	1655.1
20°	1612.5	1609.1	1605.3	1603.0	1603.8	1600.9	1599.9	1601.3	1602.3	1604.6	1606.2
25°	1550.9	1547.7	1544.2	1540.6	1539.7	1538.3	1536.9	1537.6	1539.6	1542.2	1544.5
30°	1476.7	1472.9	1469.1	1465.3	1463.4	1461.6	1460.8	1461.4	1464.3	1466.6	1470.1
35°	1391.1	1386.1	1381.5	1375.7	1377.5	1374.3	1372.2	1373.7	1377.7	1380.2	1383.3
40°	1292.0	1287.3	1281.6	1276.4	1277.4	1274.4	1273.0	1273.9	1278.0	1279.9	1284.3
45°	1183.3	1177.5	1172.4	1166.2	1166.3	1163.1	1160.8	1162.9	1166.4	1169.4	1173.2
50°	1062.9	1056.4	1050.7	1044.5	1045.2	1041.6	1039.2	1040.8	1045.0	1047.7	1053.7
55°	932.2	926.3	920.5	914.7	915.7	912.0	908.6	909.9	914.0	917.3	923.7
60°	793.8	787.4	781.2	775.7	778.7	774.5	771.2	771.0	775.2	779.1	787.0
65°	648.8	643.3	637.6	632.7	635.3	631.8	627.5	626.3	630.2	635.2	643.3
70°	501.2	495.7	491.8	487.3	491.4	487.0	482.8	480.8	483.8	489.3	498.2
75°	356.0	351.8	348.6	345.6	349.3	345.9	341.4	338.6	340.4	346.2	355.3
80°	217.0	213.7	213.6	211.8	215.4	212.0	206.8	202.7	203.9	209.4	219.7
85°	93.8	91.2	90.6	90.3	93.1	90.1	84.6	82.5	83.9	87.9	95.6
90°	2.2	1.9	1.8	1.7	0.7	0.7	0.8	0.8	0.8	0.7	1.6
95°	0.9	0.9	0.9	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
100°	0.6	0.7	0.7	0.7	0.7	0.9	0.8	0.7	0.7	0.7	0.7
105°	0.5	0.5	0.7	0.7	0.8	0.9	0.9	0.8	0.9	0.9	1.0
110°	0.5	0.5	0.7	0.5	1.1	1.2	1.3	1.1	1.0	1.1	1.3
115°	0.5	0.5	0.7	0.5	1.3	1.4	1.4	1.2	1.3	1.6	1.4
120°	0.5	0.5	0.7	0.5	1.4	1.7	1.7	1.2	1.4	1.4	1.8
125°	0.5	0.5	0.7	0.5	1.5	1.8	1.7	1.2	1.4	1.4	1.8
130°	0.5	0.5	0.7	0.5	1.7	2.1	1.9	1.6	1.7	1.9	2.0
135°	0.9	0.5	0.7	0.5	2.0	2.1	2.0	2.0	2.1	2.3	2.2
140°	1.4	1.1	0.7	0.9	2.1	2.3	2.2	2.2	2.2	2.5	2.4
145°	1.9	1.9	1.0	1.5	2.4	2.4	2.4	2.5	2.4	2.5	2.5
150°	1.9	1.9	1.9	1.9	2.7	2.8	2.9	2.9	2.5	2.9	2.9
155°	1.9	1.9	1.8	1.9	3.0	3.1	3.2	3.1	2.9	3.3	3.2
160°	1.9	1.9	1.8	1.9	3.4	3.5	3.6	3.1	3.3	3.3	3.7
165°	2.4	2.3	2.1	2.0	3.5	3.5	3.7	3.1	3.3	3.3	3.6
170°	2.7	2.8	2.4	2.7	3.7	3.5	3.9	3.1	3.3	3.3	3.7
175°	3.2	3.4	3.0	3.5	4.0	3.5	3.9	3.1	3.3	3.3	3.7
180°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1717.7	1717.7	1717.7	1717.7	1717.7	1717.7
5°	1711.0	1711.2	1713.0	1712.7	1712.9	1712.7
10°	1690.5	1690.8	1693.1	1693.0	1693.3	1693.2
15°	1656.9	1657.4	1659.8	1659.6	1660.0	1659.4
20°	1610.1	1610.6	1613.0	1612.7	1613.0	1612.5
25°	1548.3	1549.9	1552.7	1552.4	1552.7	1550.9
30°	1473.8	1475.0	1478.3	1479.4	1479.1	1476.7
35°	1387.6	1388.7	1392.1	1392.6	1392.1	1391.1
40°	1289.6	1290.2	1293.7	1294.4	1293.7	1292.0
45°	1179.2	1181.7	1184.5	1185.7	1184.3	1183.3
50°	1058.7	1062.1	1064.2	1065.2	1064.2	1062.9
55°	930.1	932.0	935.1	935.9	934.2	932.2
60°	793.4	794.4	797.8	797.9	795.4	793.8
65°	650.6	651.0	655.1	654.2	651.2	648.8
70°	505.5	506.2	509.6	508.3	504.2	501.2
75°	363.9	363.4	366.5	364.5	360.2	356.0
80°	229.0	228.1	230.5	228.5	222.1	217.0
85°	105.4	104.5	106.4	103.3	98.1	93.8
90°	4.0	3.2	4.5	4.6	3.5	2.2
95°	0.7	1.0	0.9	0.9	1.0	0.9
100°	0.7	0.7	0.8	0.8	0.7	0.6
105°	0.8	0.7	0.7	0.7	0.6	0.5
110°	1.1	0.7	0.7	0.7	0.6	0.5
115°	1.2	0.7	0.7	0.7	0.6	0.5
120°	1.4	0.7	0.7	0.7	0.6	0.5
125°	1.6	0.7	0.7	0.7	0.6	0.5
130°	1.9	0.7	0.7	0.7	0.6	0.5
135°	2.0	0.7	0.7	0.7	0.7	0.9
140°	2.1	1.4	1.4	0.7	1.3	1.4
145°	2.4	1.8	1.9	1.1	1.8	1.9
150°	2.8	1.9	1.9	1.8	1.9	1.9
155°	3.1	1.9	1.9	1.8	1.9	1.9
160°	3.2	1.9	1.9	1.8	1.9	1.9
165°	3.2	2.1	2.1	2.0	2.2	2.4
170°	3.2	2.5	2.7	2.4	2.5	2.7
175°	3.2	3.3	3.7	2.9	3.3	3.2
180°	3.2	3.2	3.2	3.2	3.2	3.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)