

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: P563586

Luminaire Tested: **24CGTS-L3C3-LOW-4000K**

Issue Date: 8/1/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( LCS210329021BSA)  
Test Lab:  
Issue Date: 8/1/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTS-L3C3-LOW-4000K  
Description: 2X4 CGTS WITH LOW LUMEN SETTING AND 4000K CCT

Light Source: -  
Ballast/Driver: -

**Summary**

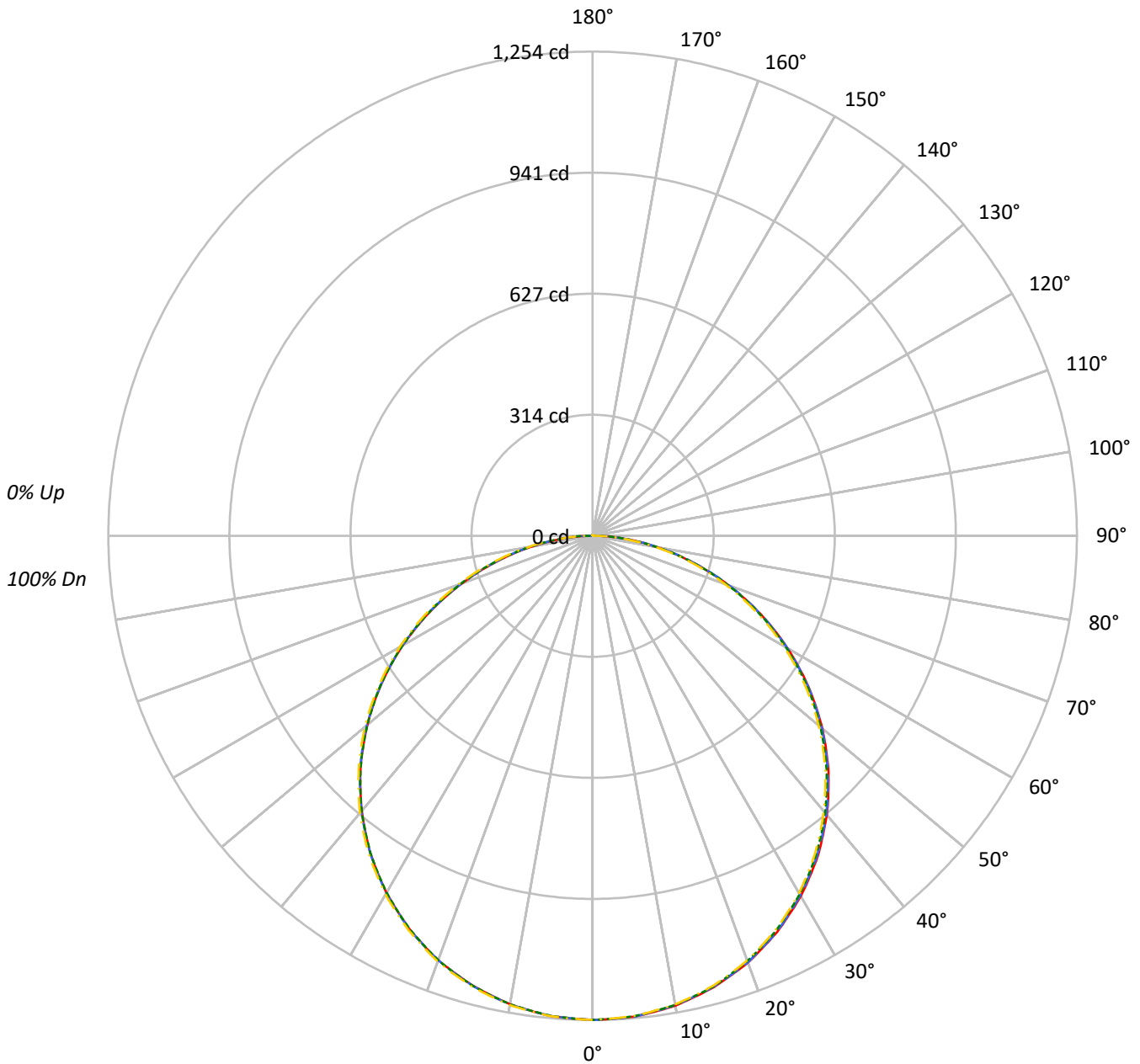
Lumens per Lamp: 4179.4 (1 lamp)  
Luminaire Lumens: 3710.1 lumens  
Efficiency: 88.8%  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.1  
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				20				
RC	80				70				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	106	106	106	106	103	103	103	103	99	99	99	94	94	94	90	90	90	89			89
1	96	92	88	84	94	90	86	83	86	83	80	82	80	78	79	77	75	74			74
2	87	80	73	68	85	78	72	67	75	70	66	72	68	64	69	66	63	61			61
3	79	70	62	56	77	68	62	56	66	60	55	63	58	54	61	57	53	51			51
4	73	62	54	48	71	61	53	47	58	52	47	56	51	46	54	49	45	43			43
5	67	55	47	41	65	54	46	41	52	45	40	50	44	40	49	43	39	37			37
6	62	50	41	36	60	49	41	35	47	40	35	45	39	35	44	39	34	33			33
7	57	45	37	31	55	44	37	31	43	36	31	41	35	31	40	35	31	29			29
8	53	41	33	28	52	40	33	28	39	32	28	38	32	28	37	31	27	26			26
9	50	38	30	25	48	37	30	25	36	29	25	35	29	25	34	29	25	23			23
10	46	35	27	23	45	34	27	23	33	27	23	32	27	22	32	26	22	21			21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	1687	1687	1687	1687
5°	1688	1687	1686	1685
10°	1688	1685	1683	1683
15°	1686	1684	1679	1680
20°	1684	1678	1675	1675
25°	1680	1673	1667	1667
30°	1675	1665	1659	1658
35°	1668	1657	1648	1648
40°	1657	1645	1633	1635
45°	1644	1630	1617	1617
50°	1626	1612	1593	1594
55°	1601	1589	1566	1567
60°	1569	1556	1527	1531
65°	1527	1514	1477	1484
70°	1474	1463	1412	1426
75°	1406	1400	1331	1355
80°	1313	1316	1217	1268
85°	1223	1169	1047	1141



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	118.7	3.2	2.8	0°	1254	1254	1254	1254	1254	
10°-20°	340.9	9.2	8.2	5°	1250	1249	1248	1248	1250	119
20°-30°	519.1	14.0	12.4	15°	1211	1209	1205	1206	1211	342
30°-40°	630.2	17.0	15.1	25°	1132	1127	1123	1123	1132	522
40°-50°	659.3	17.8	15.8	35°	1015	1009	1004	1003	1015	635
50°-60°	601.8	16.2	14.4	45°	864	857	850	850	864	666
60°-70°	466.6	12.6	11.2	55°	683	677	668	668	683	610
70°-80°	280.2	7.6	6.7	65°	480	476	464	466	480	475
80°-90°	86.8	2.3	2.1	75°	270	269	256	261	270	286
90°-100°	2.1	0.1	0.1	85°	79	76	68	74	79	84
100°-110°	0.8	0.0	0.0	90°	6	5	2	8	6	13
110°-120°	0.7	0.0	0.0	95°	1	0	1	1	1	2
120°-130°	0.6	0.0	0.0	105°	1	0	1	0	1	1
130°-140°	0.5	0.0	0.0	115°	1	1	1	0	1	1
140°-150°	0.6	0.0	0.0	125°	0	1	1	0	0	0
150°-160°	0.6	0.0	0.0	135°	0	1	1	0	0	0
160°-170°	0.4	0.0	0.0	145°	1	1	1	1	1	1
170°-180°	0.1	0.0	0.0	155°	1	1	1	1	1	1
0°-30°	978.7	26.4	23.4	165°	1	2	1	1	1	0
0°-40°	1608.9	43.4	38.5	175°	1	2	1	2	1	0
0°-60°	2869.9	77.4	68.7	180°	1	1	1	1	1	
<b>0°-90°</b>	<b>3703.6</b>	<b>99.8</b>	<b>88.6</b>							
90°-120°	3.6	0.1	0.1							
90°-150°	5.4	0.1	0.1							
<b>90°-180°</b>	<b>6.0</b>	<b>0.2</b>	<b>0.1</b>							
0°-180°	3710.1	100.0	88.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1
5°	1250.0	1249.4	1250.1	1248.4	1248.7	1249.0	1248.4	1247.7	1248.5	1247.7	1248.4
10°	1235.7	1235.0	1234.2	1233.5	1233.6	1233.9	1232.3	1231.5	1232.0	1231.4	1232.7
15°	1210.7	1209.8	1209.4	1207.9	1208.6	1208.2	1206.4	1204.8	1205.2	1205.0	1206.0
20°	1176.3	1176.5	1175.3	1172.6	1172.1	1170.8	1170.6	1168.7	1169.8	1169.0	1169.8
25°	1131.5	1131.7	1130.3	1127.4	1126.7	1126.1	1124.4	1123.1	1123.2	1122.5	1123.4
30°	1077.8	1076.8	1075.3	1072.9	1072.0	1071.0	1069.0	1067.3	1067.5	1067.2	1068.6
35°	1015.4	1013.9	1012.6	1010.0	1009.0	1006.0	1004.1	1003.1	1003.5	1002.9	1003.7
40°	943.4	942.0	941.7	937.3	936.8	933.7	931.4	930.1	930.0	930.1	931.5
45°	863.9	862.7	860.9	857.7	856.8	854.0	851.7	849.5	849.8	849.4	850.8
50°	776.6	775.9	774.6	771.1	770.0	766.7	764.2	762.0	761.2	761.5	762.7
55°	682.6	682.5	681.0	677.1	677.4	673.2	669.9	667.6	667.5	667.4	668.2
60°	583.2	583.3	581.9	578.1	578.2	573.9	570.7	568.6	567.4	567.3	568.6
65°	479.7	480.5	479.7	476.0	475.6	471.6	468.0	464.9	463.8	463.4	465.7
70°	374.8	375.4	375.5	372.5	371.8	367.8	363.8	360.5	359.0	359.0	361.0
75°	270.4	271.1	272.1	269.6	269.4	265.5	261.8	258.2	256.0	256.7	259.0
80°	169.4	170.9	171.0	168.9	169.9	166.3	163.0	159.0	157.1	158.0	161.1
85°	79.2	79.4	77.0	74.3	75.7	72.9	70.2	68.7	67.8	68.2	70.9
90°	5.6	5.0	4.3	3.5	5.4	4.7	3.8	2.8	2.2	3.1	5.2
95°	1.0	1.1	0.8	0.7	0.5	0.5	0.6	1.0	0.9	0.9	0.5
100°	1.0	1.0	0.7	0.5	0.5	0.5	0.6	1.0	1.1	1.0	0.5
105°	1.0	0.8	0.7	0.5	0.5	0.5	0.8	1.2	1.1	1.2	0.6
110°	0.8	0.7	0.7	0.5	0.6	0.6	0.9	1.2	1.1	1.2	0.9
115°	0.7	0.5	0.7	0.5	0.6	0.7	1.1	1.0	1.1	1.2	1.0
120°	0.5	0.3	0.7	0.5	0.6	0.8	1.2	0.5	1.1	0.7	1.1
125°	0.5	0.3	0.7	0.5	0.7	0.8	1.2	0.5	0.6	0.5	1.2
130°	0.5	0.3	0.7	0.5	0.8	0.9	1.2	0.5	0.6	0.5	1.2
135°	0.5	0.3	0.7	0.5	0.8	1.0	1.2	0.5	0.6	0.6	1.2
140°	0.5	0.4	0.7	0.5	1.0	1.1	1.2	0.7	0.7	0.8	1.2
145°	1.0	0.8	0.7	1.0	1.1	1.2	1.2	0.9	0.9	0.8	1.2
150°	1.1	1.2	1.1	1.2	1.3	1.4	1.4	1.1	1.1	1.0	1.2
155°	1.1	1.2	1.2	1.2	1.4	1.5	1.6	1.2	1.3	1.3	1.2
160°	1.2	1.2	1.2	1.2	1.7	1.6	1.8	1.4	1.3	1.3	1.3
165°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.4	1.3	1.3	1.3
170°	1.3	1.2	1.2	1.3	1.8	1.8	2.0	1.4	1.3	1.3	1.2
175°	1.3	1.2	1.5	1.5	1.8	1.8	2.0	1.4	1.3	1.3	1.2
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1254.1	1254.1	1254.1	1254.1	1254.1	1254.1
5°	1248.1	1247.7	1249.3	1249.1	1248.7	1250.0
10°	1232.2	1232.1	1233.3	1234.2	1234.6	1235.7
15°	1205.5	1206.0	1207.2	1208.7	1209.7	1210.7
20°	1169.1	1169.7	1171.5	1173.4	1174.2	1176.3
25°	1122.5	1122.9	1125.2	1127.4	1129.9	1131.5
30°	1067.9	1067.1	1070.6	1072.6	1076.1	1077.8
35°	1003.6	1003.1	1005.9	1009.2	1013.4	1015.4
40°	930.9	930.6	933.7	937.5	941.4	943.4
45°	850.5	849.9	853.1	856.8	861.1	863.9
50°	762.7	761.6	765.6	769.8	774.0	776.6
55°	668.8	667.9	671.1	676.0	679.3	682.6
60°	569.6	568.9	572.4	576.9	579.9	583.2
65°	466.6	466.2	470.4	474.4	477.6	479.7
70°	363.1	362.5	366.8	370.7	372.6	374.8
75°	261.7	260.7	264.0	267.3	268.8	270.4
80°	164.7	163.6	166.7	168.2	168.7	169.4
85°	74.6	73.9	76.4	77.9	78.4	79.2
90°	7.8	8.3	9.2	8.5	6.9	5.6
95°	0.5	0.8	0.7	0.8	1.0	1.0
100°	0.5	0.5	0.5	0.7	1.0	1.0
105°	0.5	0.5	0.5	0.7	0.9	1.0
110°	0.6	0.5	0.5	0.7	0.7	0.8
115°	0.7	0.5	0.5	0.7	0.5	0.7
120°	0.8	0.5	0.5	0.7	0.4	0.5
125°	0.8	0.5	0.5	0.7	0.4	0.5
130°	0.8	0.5	0.5	0.7	0.4	0.5
135°	0.9	0.5	0.5	0.7	0.4	0.5
140°	1.0	0.6	0.5	0.7	0.4	0.5
145°	1.2	1.1	1.0	0.7	0.8	1.0
150°	1.3	1.1	1.2	1.2	1.1	1.1
155°	1.4	1.1	1.2	1.2	1.1	1.1
160°	1.4	1.2	1.2	1.2	1.1	1.2
165°	1.4	1.2	1.2	1.2	1.1	1.2
170°	1.4	1.3	1.3	1.2	1.3	1.3
175°	1.4	1.6	1.7	1.4	1.4	1.3
180°	1.3	1.3	1.3	1.3	1.3	1.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)