

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: P563585

Luminaire Tested: **24CGTS-L3C3-LOW-3500K**

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563585
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-3500K
Description: 2X4 CGTS WITH LOW LUMEN SETTING AND 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

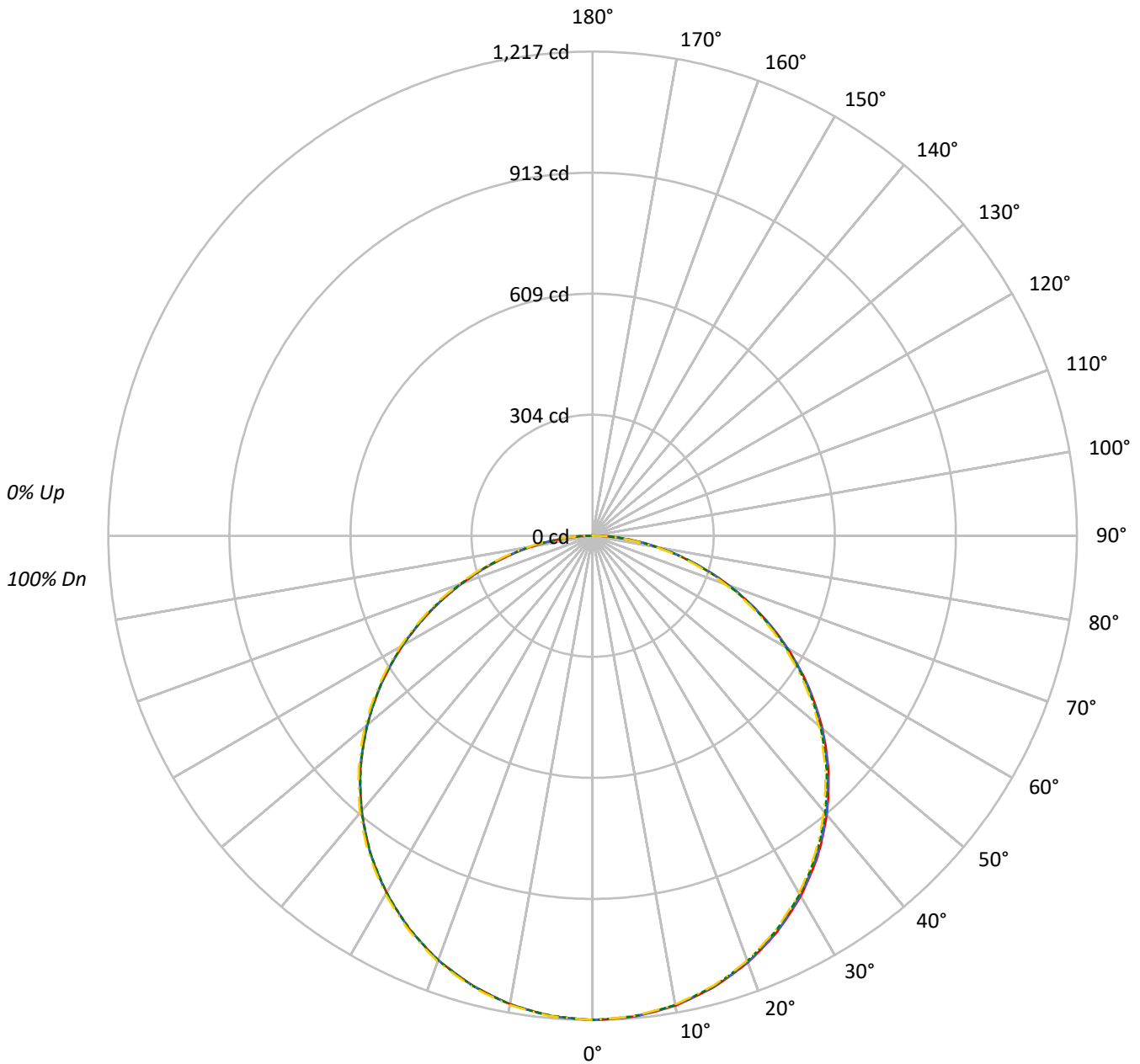
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 3600.0 lumens
Efficiency: 86.1%
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.8
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	103	103	103	103	100	100	100	100	96	96	96	92	92	92	88	88	88	86				86															
1	93	89	85	82	91	87	84	80	83	80	78	80	78	75	77	75	73	71				71															
2	85	77	71	66	82	76	70	65	73	68	64	70	66	62	67	64	61	59				59															
3	77	68	61	55	75	66	60	54	64	58	53	61	56	52	59	55	51	49				49															
4	70	60	52	46	68	59	52	46	57	50	45	54	49	45	53	48	44	42				42															
5	65	53	46	40	63	52	45	39	51	44	39	49	43	39	47	42	38	36				36															
6	60	48	40	35	58	47	40	34	46	39	34	44	38	34	43	38	33	32				32															
7	55	44	36	30	54	43	36	30	41	35	30	40	34	30	39	34	30	28				28															
8	51	40	32	27	50	39	32	27	38	31	27	37	31	27	36	30	27	25				25															
9	48	36	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22				22															
10	45	34	27	22	44	33	26	22	32	26	22	31	26	22	31	25	22	20				20															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1637	1637	1637	1637
5°	1638	1637	1636	1635
10°	1638	1636	1633	1633
15°	1636	1634	1629	1630
20°	1634	1628	1625	1625
25°	1630	1623	1618	1618
30°	1625	1616	1609	1609
35°	1618	1608	1600	1599
40°	1608	1597	1585	1586
45°	1595	1582	1569	1569
50°	1577	1564	1546	1547
55°	1554	1542	1519	1520
60°	1523	1510	1482	1485
65°	1482	1469	1433	1440
70°	1431	1419	1370	1384
75°	1364	1359	1291	1315
80°	1274	1278	1182	1230
85°	1187	1135	1016	1107



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	115.2	3.2	2.8	0°	1217	1217	1217	1217	1217	
10°-20°	330.8	9.2	7.9	5°	1213	1212	1212	1211	1213	115
20°-30°	503.7	14.0	12.1	15°	1175	1173	1170	1170	1175	332
30°-40°	611.5	17.0	14.6	25°	1098	1093	1090	1090	1098	506
40°-50°	639.7	17.8	15.3	35°	985	979	974	973	985	616
50°-60°	584.0	16.2	14.0	45°	838	831	825	825	838	646
60°-70°	452.8	12.6	10.8	55°	662	657	648	648	662	592
70°-80°	271.9	7.6	6.5	65°	466	462	450	452	466	461
80°-90°	84.3	2.3	2.0	75°	262	261	248	253	262	278
90°-100°	2.0	0.1	0.0	85°	77	74	66	72	77	82
100°-110°	0.8	0.0	0.0	90°	5	5	2	8	5	12
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°	949.7	26.4	22.7	165°	1	2	1	1	1	0
0°-40°	1561.2	43.4	37.4	175°	1	2	1	2	1	0
0°-60°	2784.9	77.4	66.6	180°	1	1	1	1	1	
0°-90°	3593.8	99.8	86.0							
90°-120°	3.5	0.1	0.1							
90°-150°	5.2	0.1	0.1							
90°-180°	6.0	0.2	0.1							
0°-180°	3600.0	100.0	86.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9
5°	1212.9	1212.4	1213.0	1211.4	1211.7	1212.0	1211.4	1210.7	1211.5	1210.7	1211.4
10°	1199.1	1198.4	1197.7	1196.9	1197.1	1197.3	1195.8	1194.9	1195.4	1194.9	1196.1
15°	1174.8	1173.9	1173.6	1172.1	1172.8	1172.4	1170.7	1169.1	1169.5	1169.3	1170.2
20°	1141.4	1141.6	1140.5	1137.9	1137.3	1136.1	1135.9	1134.0	1135.1	1134.3	1135.1
25°	1098.0	1098.1	1096.8	1094.0	1093.3	1092.8	1091.0	1089.8	1089.9	1089.2	1090.1
30°	1045.9	1044.8	1043.5	1041.0	1040.2	1039.2	1037.3	1035.7	1035.8	1035.6	1037.0
35°	985.3	983.8	982.6	980.1	979.1	976.1	974.3	973.4	973.8	973.2	973.9
40°	915.5	914.1	913.8	909.5	909.0	906.0	903.8	902.5	902.4	902.5	903.8
45°	838.3	837.1	835.4	832.3	831.4	828.7	826.4	824.3	824.6	824.2	825.6
50°	753.6	752.9	751.6	748.3	747.2	744.0	741.6	739.4	738.6	738.9	740.1
55°	662.4	662.2	660.8	657.0	657.3	653.3	650.0	647.8	647.7	647.7	648.4
60°	565.9	566.0	564.6	561.0	561.0	556.9	553.8	551.7	550.6	550.4	551.8
65°	465.5	466.2	465.4	461.9	461.5	457.7	454.1	451.1	450.0	449.7	451.9
70°	363.7	364.2	364.3	361.4	360.7	356.9	353.0	349.8	348.3	348.3	350.3
75°	262.4	263.0	264.0	261.6	261.4	257.6	254.0	250.5	248.4	249.1	251.4
80°	164.4	165.8	165.9	163.9	164.9	161.4	158.2	154.2	152.5	153.3	156.3
85°	76.9	77.1	74.7	72.1	73.5	70.7	68.1	66.7	65.8	66.2	68.8
90°	5.4	4.9	4.1	3.4	5.2	4.6	3.7	2.7	2.1	3.1	5.1
95°	1.0	1.1	0.7	0.7	0.5	0.5	0.6	0.9	0.9	0.9	0.5
100°	1.0	0.9	0.7	0.5	0.5	0.5	0.6	1.0	1.1	0.9	0.5
105°	0.9	0.8	0.7	0.5	0.5	0.5	0.7	1.1	1.1	1.2	0.6
110°	0.8	0.7	0.7	0.5	0.6	0.6	0.9	1.1	1.1	1.1	0.9
115°	0.7	0.5	0.7	0.5	0.6	0.7	1.1	1.0	1.1	1.1	1.0
120°	0.5	0.3	0.7	0.5	0.6	0.7	1.1	0.5	1.0	0.7	1.1
125°	0.5	0.3	0.7	0.5	0.7	0.7	1.1	0.5	0.6	0.5	1.1
130°	0.5	0.3	0.7	0.5	0.7	0.9	1.1	0.5	0.6	0.5	1.1
135°	0.5	0.3	0.7	0.5	0.8	0.9	1.1	0.5	0.6	0.6	1.1
140°	0.5	0.4	0.7	0.5	0.9	1.1	1.2	0.7	0.7	0.7	1.1
145°	0.9	0.8	0.7	1.0	1.1	1.2	1.2	0.9	0.9	0.8	1.1
150°	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.1	1.1	0.9	1.1
155°	1.1	1.1	1.1	1.2	1.4	1.5	1.6	1.2	1.3	1.3	1.1
160°	1.2	1.1	1.1	1.2	1.7	1.6	1.7	1.3	1.3	1.3	1.3
165°	1.1	1.1	1.1	1.2	1.7	1.7	1.8	1.3	1.3	1.3	1.3
170°	1.3	1.2	1.2	1.3	1.8	1.7	1.9	1.3	1.3	1.3	1.2
175°	1.3	1.2	1.5	1.5	1.8	1.7	1.9	1.3	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°	1216.9	1216.9	1216.9	1216.9	1216.9	1216.9
5°	1211.1	1210.7	1212.3	1212.1	1211.6	1212.9
10°	1195.6	1195.6	1196.7	1197.6	1198.0	1199.1
15°	1169.7	1170.2	1171.4	1172.9	1173.8	1174.8
20°	1134.4	1135.0	1136.8	1138.6	1139.4	1141.4
25°	1089.3	1089.6	1091.9	1094.0	1096.4	1098.0
30°	1036.2	1035.4	1038.9	1040.8	1044.2	1045.9
35°	973.8	973.3	976.1	979.2	983.3	985.3
40°	903.3	903.0	906.0	909.7	913.5	915.5
45°	825.2	824.7	827.8	831.4	835.5	838.3
50°	740.1	739.0	742.9	747.0	751.1	753.6
55°	649.0	648.1	651.2	656.0	659.1	662.4
60°	552.7	552.0	555.4	559.8	562.7	565.9
65°	452.8	452.3	456.4	460.3	463.4	465.5
70°	352.4	351.7	355.9	359.7	361.6	363.7
75°	253.9	252.9	256.2	259.4	260.9	262.4
80°	159.8	158.7	161.7	163.2	163.7	164.4
85°	72.4	71.7	74.1	75.6	76.0	76.9
90°	7.5	8.1	8.9	8.2	6.7	5.4
95°	0.5	0.7	0.7	0.7	1.0	1.0
100°	0.5	0.5	0.5	0.7	0.9	1.0
105°	0.5	0.5	0.5	0.7	0.9	0.9
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°	0.7	0.5	0.5	0.7	0.4	0.5
125°	0.7	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°	1.1	1.1	0.9	0.7	0.8	0.9
150°	1.3	1.1	1.1	1.2	1.1	1.1
155°	1.4	1.1	1.1	1.1	1.1	1.1
160°	1.4	1.1	1.2	1.2	1.1	1.2
165°	1.4	1.1	1.2	1.2	1.1	1.1
170°	1.4	1.3	1.3	1.2	1.3	1.3
175°	1.4	1.6	1.7	1.3	1.3	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)