

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: P563589

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

Issue Date: 8/1/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563589  
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-MID-4000K  
Description: 2X4 CGTS WITH MID LUMEN SETTING AND 4000K CCT

Light Source: -  
Ballast/Driver: -

**Summary**

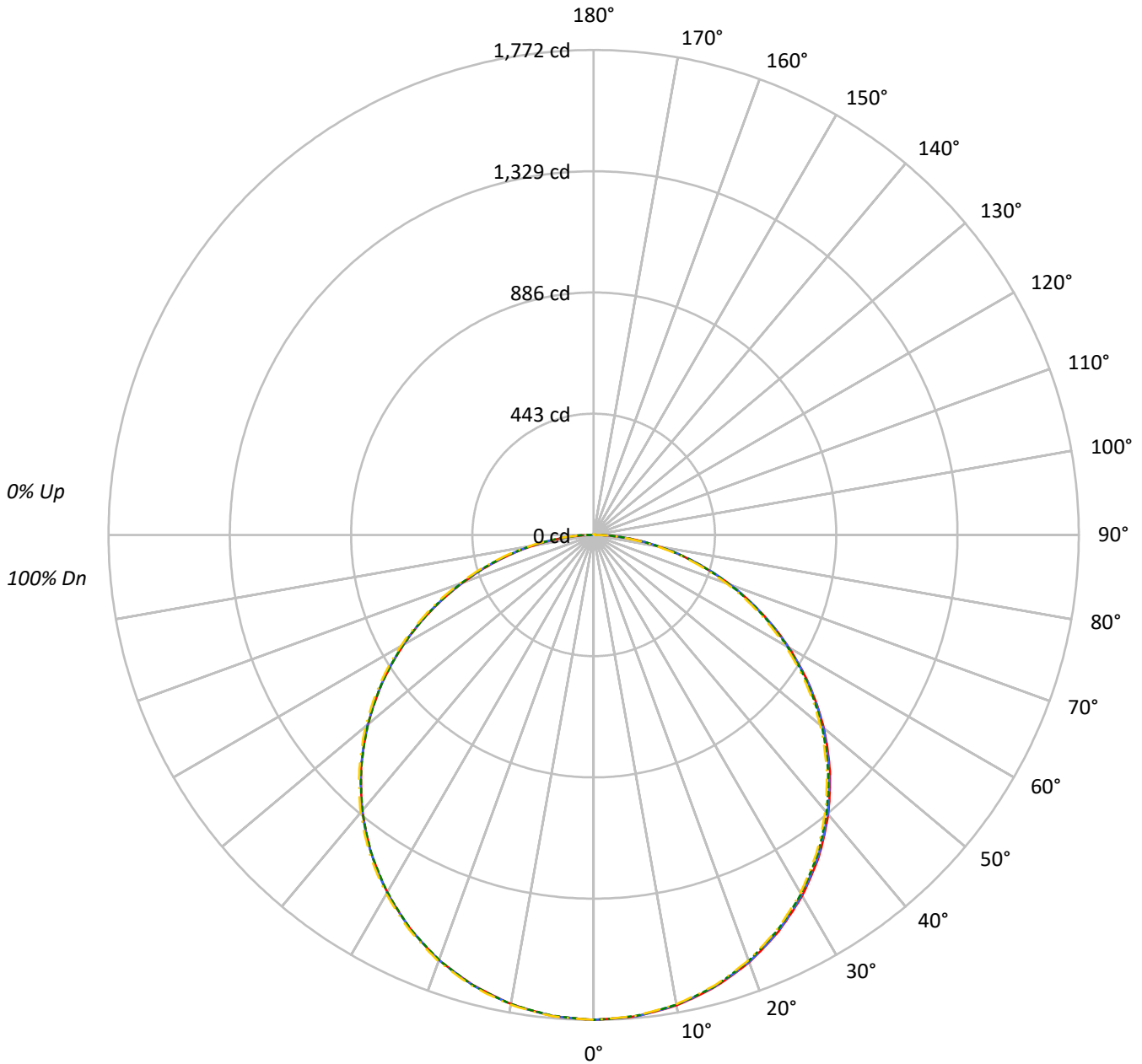
Lumens per Lamp: 4179.4 (1 lamp)  
Luminaire Lumens: 5241.1 lumens  
Efficiency: 125.4%  
Efficacy: 136.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	149	149	149	149	146	146	146	146	139	139	139	133	133	133	128	128	128	125			
1	136	130	124	119	132	127	122	117	121	117	113	116	113	110	112	109	107	104			
2	123	113	104	96	120	110	102	95	106	99	93	102	96	91	98	93	89	86			
3	112	99	88	80	109	97	87	79	93	84	78	89	82	76	86	80	75	72			
4	103	87	76	67	100	86	75	67	82	73	66	79	71	65	77	70	64	61			
5	94	78	66	58	92	76	66	58	74	64	57	71	63	56	69	61	56	53			
6	87	70	59	50	84	69	58	50	66	57	50	64	56	49	62	55	49	46			
7	81	63	52	44	78	62	52	44	60	51	44	58	50	44	57	49	43	41			
8	75	58	47	40	73	57	47	39	55	46	39	54	45	39	52	44	39	36			
9	70	53	43	36	68	52	42	35	51	42	35	49	41	35	48	40	35	32			
10	66	49	39	32	64	48	39	32	47	38	32	46	38	32	45	37	32	29			

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

	0°	90°	180°	270°
0°	2384	2384	2384	2384
5°	2385	2383	2382	2380
10°	2385	2381	2378	2378
15°	2382	2378	2372	2373
20°	2379	2371	2366	2366
25°	2373	2363	2356	2355
30°	2366	2353	2343	2342
35°	2356	2341	2329	2327
40°	2341	2324	2308	2309
45°	2322	2303	2284	2285
50°	2296	2277	2251	2252
55°	2262	2245	2212	2213
60°	2217	2198	2157	2163
65°	2158	2139	2086	2096
70°	2083	2066	1995	2015
75°	1986	1978	1880	1914
80°	1854	1860	1720	1791
85°	1727	1652	1477	1612



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	167.7	3.2	4.0	0°	1772	1772	1772	1772	1772	
10°-20°	481.5	9.2	11.5	5°	1766	1764	1764	1762	1766	168
20°-30°	733.3	14.0	17.5	15°	1710	1707	1703	1704	1710	483
30°-40°	890.3	17.0	21.3	25°	1598	1592	1587	1586	1598	737
40°-50°	931.3	17.8	22.3	35°	1434	1425	1418	1417	1434	897
50°-60°	850.1	16.2	20.3	45°	1220	1210	1200	1201	1220	941
60°-70°	659.2	12.6	15.8	55°	964	957	943	944	964	862
70°-80°	395.8	7.6	9.5	65°	678	672	655	658	678	671
80°-90°	122.7	2.3	2.9	75°	382	380	362	368	382	404
90°-100°	3.0	0.1	0.1	85°	112	107	96	104	112	119
100°-110°	1.1	0.0	0.0	90°	8	8	3	12	8	18
110°-120°	1.0	0.0	0.0	95°	2	1	1	1	2	2
120°-130°	0.8	0.0	0.0	105°	1	1	2	1	1	1
130°-140°	0.8	0.0	0.0	115°	1	1	2	1	1	1
140°-150°	0.9	0.0	0.0	125°	1	1	1	1	1	1
150°-160°	0.8	0.0	0.0	135°	1	1	1	1	1	1
160°-170°	0.5	0.0	0.0	145°	1	2	1	2	1	1
170°-180°	0.2	0.0	0.0	155°	2	2	2	2	2	1
0°-30°	1382.5	26.4	33.1	165°	2	2	2	2	2	0
0°-40°	2272.8	43.4	54.4	175°	2	3	2	2	2	0
0°-60°	4054.3	77.4	97.0	180°	2	2	2	2	2	
<b>0°-90°</b>	<b>5232.0</b>	<b>99.8</b>	<b>125.2</b>							
90°-120°	5.1	0.1	0.1							
90°-150°	7.6	0.1	0.2							
<b>90°-180°</b>	<b>9.0</b>	<b>0.2</b>	<b>0.2</b>							
0°-180°	5241.1	100.0	125.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6
5°	1765.8	1765.0	1766.0	1763.5	1764.0	1764.5	1763.6	1762.6	1763.7	1762.5	1763.6
10°	1745.6	1744.6	1743.6	1742.5	1742.7	1743.1	1740.8	1739.6	1740.3	1739.6	1741.3
15°	1710.3	1709.0	1708.5	1706.4	1707.4	1706.8	1704.3	1702.0	1702.6	1702.3	1703.7
20°	1661.8	1662.0	1660.3	1656.5	1655.7	1654.0	1653.6	1651.0	1652.5	1651.4	1652.5
25°	1598.4	1598.7	1596.7	1592.7	1591.6	1590.9	1588.4	1586.5	1586.7	1585.7	1587.0
30°	1522.6	1521.1	1519.1	1515.6	1514.4	1512.9	1510.1	1507.8	1508.0	1507.6	1509.6
35°	1434.5	1432.3	1430.4	1426.9	1425.3	1421.1	1418.4	1417.1	1417.7	1416.7	1417.8
40°	1332.8	1330.7	1330.3	1324.1	1323.4	1319.0	1315.7	1313.9	1313.8	1314.0	1315.8
45°	1220.5	1218.7	1216.2	1211.7	1210.3	1206.4	1203.1	1200.1	1200.5	1199.9	1202.0
50°	1097.1	1096.1	1094.3	1089.4	1087.8	1083.1	1079.6	1076.5	1075.3	1075.7	1077.5
55°	964.3	964.1	962.0	956.5	957.0	951.0	946.3	943.0	942.9	942.9	943.9
60°	823.8	824.1	822.0	816.7	816.7	810.8	806.2	803.2	801.5	801.3	803.3
65°	677.7	678.8	677.6	672.5	671.9	666.3	661.1	656.8	655.2	654.7	657.9
70°	529.5	530.3	530.4	526.2	525.2	519.6	513.9	509.3	507.1	507.1	510.0
75°	382.0	382.9	384.4	380.8	380.5	375.0	369.8	364.7	361.6	362.7	365.9
80°	239.3	241.4	241.5	238.6	240.1	234.9	230.3	224.5	222.0	223.2	227.6
85°	111.9	112.2	108.7	104.9	107.0	103.0	99.2	97.1	95.7	96.3	100.2
90°	7.9	7.1	6.0	4.9	7.6	6.7	5.3	3.9	3.0	4.4	7.4
95°	1.5	1.5	1.1	1.0	0.7	0.7	0.9	1.4	1.3	1.3	0.8
100°	1.4	1.4	1.0	0.8	0.7	0.7	0.9	1.5	1.5	1.4	0.8
105°	1.4	1.2	1.0	0.7	0.7	0.8	1.1	1.6	1.5	1.7	0.9
110°	1.2	1.0	1.0	0.7	0.9	0.9	1.3	1.6	1.5	1.6	1.3
115°	1.0	0.7	1.0	0.7	0.9	1.0	1.5	1.4	1.5	1.6	1.4
120°	0.7	0.5	1.0	0.7	0.9	1.1	1.6	0.7	1.5	1.1	1.5
125°	0.7	0.5	1.0	0.7	1.0	1.1	1.6	0.7	0.9	0.8	1.6
130°	0.7	0.5	1.0	0.7	1.1	1.3	1.6	0.7	0.9	0.8	1.6
135°	0.7	0.5	1.0	0.7	1.2	1.4	1.6	0.8	0.9	0.9	1.6
140°	0.7	0.6	1.0	0.8	1.4	1.5	1.7	1.0	1.0	1.1	1.6
145°	1.4	1.2	1.0	1.4	1.5	1.7	1.7	1.3	1.3	1.2	1.6
150°	1.5	1.6	1.5	1.7	1.8	1.9	2.0	1.5	1.5	1.4	1.6
155°	1.5	1.6	1.6	1.7	2.0	2.1	2.3	1.7	1.8	1.8	1.6
160°	1.7	1.6	1.6	1.7	2.4	2.3	2.5	1.9	1.8	1.8	1.8
165°	1.6	1.6	1.6	1.7	2.5	2.5	2.6	1.9	1.8	1.8	1.8
170°	1.8	1.7	1.7	1.8	2.6	2.5	2.8	1.9	1.8	1.8	1.7
175°	1.8	1.7	2.1	2.1	2.6	2.5	2.8	1.9	1.8	1.8	1.7
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6
5°	1763.1	1762.5	1764.9	1764.6	1763.9	1765.8
10°	1740.7	1740.6	1742.2	1743.5	1744.0	1745.6
15°	1702.9	1703.6	1705.4	1707.5	1708.9	1710.3
20°	1651.6	1652.4	1655.0	1657.7	1658.7	1661.8
25°	1585.8	1586.3	1589.6	1592.6	1596.2	1598.4
30°	1508.6	1507.4	1512.4	1515.2	1520.2	1522.6
35°	1417.7	1417.0	1421.0	1425.6	1431.6	1434.5
40°	1315.1	1314.6	1319.0	1324.4	1329.9	1332.8
45°	1201.4	1200.6	1205.2	1210.4	1216.4	1220.5
50°	1077.4	1075.9	1081.5	1087.5	1093.5	1097.1
55°	944.8	943.6	948.1	955.0	959.6	964.3
60°	804.6	803.7	808.6	814.9	819.3	823.8
65°	659.1	658.5	664.5	670.2	674.6	677.7
70°	513.0	512.1	518.2	523.6	526.4	529.5
75°	369.7	368.2	373.0	377.7	379.8	382.0
80°	232.7	231.1	235.4	237.7	238.4	239.3
85°	105.4	104.4	107.9	110.0	110.7	111.9
90°	11.0	11.8	13.0	12.0	9.8	7.9
95°	0.7	1.1	1.0	1.1	1.4	1.5
100°	0.7	0.8	0.8	1.0	1.4	1.4
105°	0.7	0.7	0.8	1.0	1.3	1.4
110°	0.9	0.7	0.7	1.0	1.0	1.2
115°	1.0	0.7	0.7	1.0	0.8	1.0
120°	1.1	0.7	0.7	1.0	0.6	0.7
125°	1.1	0.7	0.7	1.0	0.6	0.7
130°	1.2	0.7	0.7	1.0	0.6	0.7
135°	1.3	0.7	0.7	1.0	0.6	0.7
140°	1.4	0.9	0.8	1.0	0.6	0.7
145°	1.6	1.5	1.4	1.0	1.2	1.4
150°	1.8	1.5	1.6	1.7	1.5	1.5
155°	2.0	1.5	1.6	1.6	1.5	1.5
160°	2.0	1.6	1.7	1.7	1.5	1.7
165°	2.0	1.6	1.7	1.7	1.5	1.6
170°	2.0	1.8	1.8	1.7	1.8	1.8
175°	2.0	2.3	2.4	1.9	1.9	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







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









(END OF REPORT)