

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: P563588

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

Issue Date: 8/1/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563588  
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-3500K  
Description: 2X4 CGTS WITH MID LUMEN SETTING AND 3500K CCT

Light Source: -  
Ballast/Driver: -

**Summary**

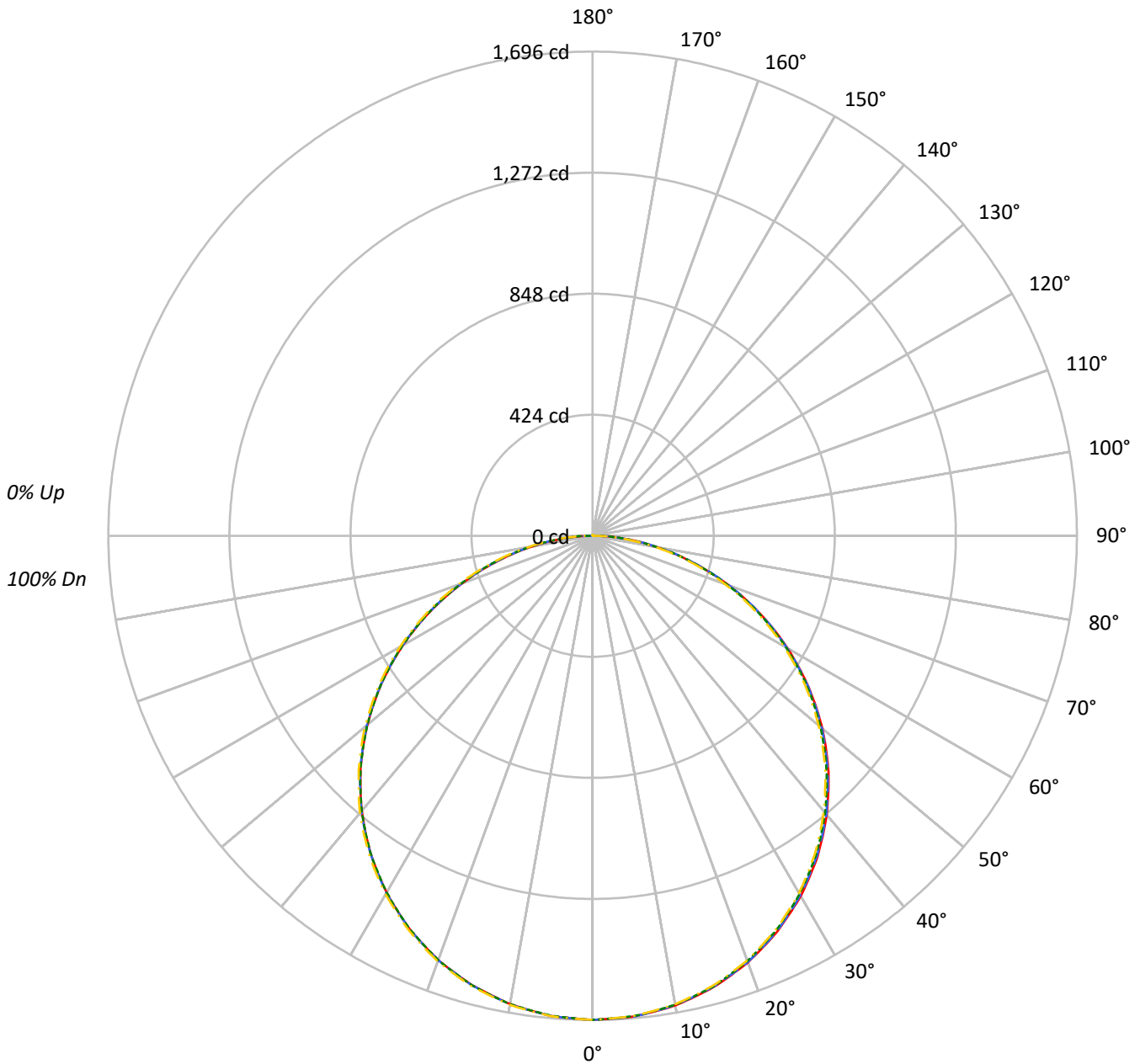
Lumens per Lamp: 4179.4 (1 lamp)  
Luminaire Lumens: 5016.0 lumens  
Efficiency: 120.0%  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.7  
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

TEST NUMBER: P563588

CATALOG NUMBER: 24CGTS-L3C3-MID-3500K

### 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	143	143	143	143	139	139	139	139	133	133	133	128	128	128	122	122	122	120																			
1	130	124	119	114	127	121	116	112	116	112	108	111	108	105	107	104	102	99																			
2	118	108	99	92	115	105	98	91	101	95	89	97	92	87	93	89	85	82																			
3	107	94	84	76	104	92	83	76	89	81	74	85	79	73	82	77	72	69																			
4	98	83	73	64	95	82	72	64	79	70	63	76	68	62	73	67	61	59																			
5	90	74	63	55	88	73	63	55	70	61	54	68	60	54	66	59	53	51																			
6	83	67	56	48	81	66	55	48	64	54	48	62	53	47	60	52	47	44																			
7	77	61	50	42	75	60	50	42	58	49	42	56	48	42	54	47	41	39																			
8	72	55	45	38	70	54	45	38	53	44	37	51	43	37	50	42	37	35																			
9	67	51	41	34	65	50	40	34	49	40	34	47	39	33	46	39	33	31																			
10	63	47	37	31	61	46	37	31	45	36	31	44	36	30	43	35	30	28																			

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

	0°	90°	180°	270°
0°	2281	2281	2281	2281
5°	2283	2280	2280	2278
10°	2283	2279	2276	2276
15°	2280	2276	2270	2271
20°	2277	2269	2264	2264
25°	2271	2261	2254	2254
30°	2264	2252	2242	2241
35°	2255	2241	2229	2228
40°	2240	2224	2209	2210
45°	2223	2204	2186	2187
50°	2198	2179	2154	2155
55°	2165	2149	2117	2118
60°	2122	2104	2064	2070
65°	2065	2047	1996	2007
70°	1994	1977	1909	1928
75°	1901	1893	1799	1832
80°	1775	1781	1646	1714
85°	1653	1581	1414	1544



TEST NUMBER: P563588

CATALOG NUMBER: 24CGTS-L3C3-MID-3500K

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	90°	180°	270°	360°	Flux	
0°-10°	160.5	3.2	3.8	0°	1696	1696	1696	1696		
10°-20°	460.9	9.2	11.0	5°	1690	1688	1688	1687	161	
20°-30°	701.8	14.0	16.8	15°	1637	1634	1630	1630	1637	462
30°-40°	852.0	17.0	20.4	25°	1530	1523	1519	1518	1530	705
40°-50°	891.4	17.8	21.3	35°	1373	1364	1357	1356	1373	859
50°-60°	813.6	16.2	19.5	45°	1168	1158	1149	1149	1168	901
60°-70°	630.9	12.6	15.1	55°	923	916	902	903	923	825
70°-80°	378.8	7.6	9.1	65°	649	643	627	630	649	642
80°-90°	117.4	2.3	2.8	75°	366	364	346	352	366	387
90°-100°	2.8	0.1	0.1	85°	107	102	92	100	107	114
100°-110°	1.0	0.0	0.0	90°	8	7	3	11	8	17
110°-120°	1.0	0.0	0.0	95°	1	1	1	1	1	2
120°-130°	0.8	0.0	0.0	105°	1	1	2	1	1	1
130°-140°	0.7	0.0	0.0	115°	1	1	2	1	1	1
140°-150°	0.8	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	0
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°	1323.2	26.4	31.7	165°	2	2	2	2	2	0
0°-40°	2175.2	43.4	52.0	175°	2	2	2	2	2	0
0°-60°	3880.2	77.4	92.8	180°	2	2	2	2	2	
0°-90°	5007.4	99.8	119.8							
90°-120°	4.8	0.1	0.1							
90°-150°	7.1	0.1	0.2							
90°-180°	9.0	0.2	0.2							
0°-180°	5016.0	100.0	120.0							



TEST NUMBER: P563588

CATALOG NUMBER: 24CGTS-L3C3-MID-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5
5°	1690.0	1689.3	1690.1	1687.8	1688.3	1688.7	1687.9	1686.9	1688.0	1686.9	1687.9
10°	1670.7	1669.7	1668.7	1667.7	1667.9	1668.2	1666.1	1665.0	1665.6	1664.9	1666.6
15°	1636.9	1635.6	1635.2	1633.1	1634.1	1633.5	1631.1	1629.0	1629.5	1629.2	1630.5
20°	1590.4	1590.7	1589.0	1585.4	1584.7	1583.0	1582.6	1580.1	1581.5	1580.5	1581.6
25°	1529.8	1530.0	1528.2	1524.3	1523.3	1522.6	1520.2	1518.4	1518.6	1517.7	1518.9
30°	1457.3	1455.8	1453.9	1450.5	1449.4	1447.9	1445.3	1443.0	1443.3	1442.9	1444.8
35°	1372.9	1370.8	1369.0	1365.6	1364.2	1360.1	1357.5	1356.2	1356.8	1355.9	1357.0
40°	1275.5	1273.6	1273.2	1267.3	1266.5	1262.4	1259.2	1257.5	1257.4	1257.5	1259.4
45°	1168.1	1166.4	1164.0	1159.7	1158.3	1154.6	1151.5	1148.6	1149.0	1148.4	1150.4
50°	1050.0	1049.0	1047.3	1042.6	1041.1	1036.6	1033.2	1030.3	1029.2	1029.5	1031.2
55°	922.9	922.7	920.7	915.5	915.9	910.2	905.7	902.6	902.4	902.4	903.4
60°	788.4	788.7	786.7	781.7	781.7	776.0	771.6	768.8	767.1	766.9	768.8
65°	648.6	649.6	648.5	643.6	643.1	637.7	632.7	628.6	627.1	626.6	629.7
70°	506.8	507.5	507.6	503.6	502.6	497.3	491.9	487.4	485.3	485.3	488.1
75°	365.6	366.5	367.9	364.5	364.2	358.9	353.9	349.0	346.1	347.1	350.2
80°	229.1	231.1	231.2	228.3	229.8	224.8	220.4	214.9	212.4	213.6	217.8
85°	107.1	107.4	104.1	100.4	102.4	98.6	94.9	92.9	91.6	92.2	95.9
90°	7.5	6.8	5.8	4.7	7.3	6.4	5.1	3.7	2.9	4.3	7.1
95°	1.4	1.5	1.0	0.9	0.6	0.6	0.8	1.3	1.2	1.2	0.7
100°	1.4	1.3	0.9	0.7	0.6	0.6	0.8	1.4	1.5	1.3	0.7
105°	1.3	1.1	0.9	0.6	0.6	0.7	1.0	1.6	1.5	1.7	0.8
110°	1.1	0.9	0.9	0.6	0.8	0.8	1.2	1.6	1.5	1.6	1.2
115°	0.9	0.6	0.9	0.6	0.8	0.9	1.5	1.4	1.5	1.6	1.4
120°	0.6	0.5	0.9	0.6	0.8	1.0	1.6	0.6	1.5	1.0	1.5
125°	0.6	0.5	0.9	0.6	0.9	1.0	1.6	0.6	0.8	0.7	1.6
130°	0.6	0.5	0.9	0.6	1.0	1.2	1.6	0.6	0.8	0.7	1.6
135°	0.6	0.5	0.9	0.6	1.1	1.3	1.6	0.7	0.8	0.8	1.6
140°	0.6	0.6	0.9	0.7	1.3	1.5	1.7	0.9	0.9	1.0	1.6
145°	1.3	1.1	0.9	1.4	1.5	1.7	1.7	1.2	1.2	1.1	1.6
150°	1.5	1.6	1.5	1.7	1.8	1.8	1.9	1.5	1.5	1.3	1.6
155°	1.5	1.6	1.6	1.7	1.9	2.0	2.2	1.7	1.8	1.8	1.6
160°	1.7	1.6	1.6	1.7	2.3	2.2	2.4	1.8	1.8	1.8	1.8
165°	1.6	1.6	1.6	1.7	2.4	2.4	2.5	1.8	1.8	1.8	1.8
170°	1.8	1.7	1.7	1.8	2.5	2.4	2.7	1.8	1.8	1.8	1.7
175°	1.8	1.7	2.0	2.0	2.5	2.4	2.7	1.8	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



TEST NUMBER: P563588

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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1695.5	1695.5	1695.5	1695.5	1695.5	1695.5
5°	1687.4	1686.9	1689.1	1688.8	1688.2	1690.0
10°	1665.9	1665.8	1667.4	1668.6	1669.2	1670.7
15°	1629.8	1630.5	1632.2	1634.2	1635.5	1636.9
20°	1580.6	1581.5	1583.9	1586.5	1587.5	1590.4
25°	1517.7	1518.2	1521.4	1524.3	1527.7	1529.8
30°	1443.8	1442.7	1447.5	1450.2	1454.9	1457.3
35°	1356.8	1356.2	1360.0	1364.4	1370.1	1372.9
40°	1258.6	1258.2	1262.3	1267.6	1272.8	1275.5
45°	1149.8	1149.1	1153.4	1158.4	1164.2	1168.1
50°	1031.2	1029.7	1035.1	1040.8	1046.5	1050.0
55°	904.2	903.1	907.4	914.0	918.4	922.9
60°	770.1	769.2	773.9	780.0	784.1	788.4
65°	630.8	630.3	635.9	641.4	645.7	648.6
70°	491.0	490.1	495.9	501.1	503.8	506.8
75°	353.8	352.4	357.0	361.5	363.5	365.6
80°	222.7	221.2	225.3	227.4	228.1	229.1
85°	100.9	100.0	103.3	105.3	106.0	107.1
90°	10.5	11.3	12.4	11.5	9.4	7.5
95°	0.6	1.0	0.9	1.0	1.4	1.4
100°	0.6	0.7	0.7	0.9	1.3	1.4
105°	0.6	0.6	0.7	0.9	1.2	1.3
110°	0.8	0.6	0.6	0.9	0.9	1.1
115°	0.9	0.6	0.6	0.9	0.7	0.9
120°	1.0	0.6	0.6	0.9	0.6	0.6
125°	1.0	0.6	0.6	0.9	0.6	0.6
130°	1.1	0.6	0.6	0.9	0.6	0.6
135°	1.2	0.6	0.6	0.9	0.6	0.6
140°	1.4	0.8	0.7	0.9	0.6	0.6
145°	1.6	1.5	1.3	0.9	1.1	1.3
150°	1.8	1.5	1.6	1.7	1.5	1.5
155°	1.9	1.5	1.6	1.6	1.5	1.5
160°	1.9	1.6	1.7	1.7	1.5	1.7
165°	1.9	1.6	1.7	1.7	1.5	1.6
170°	1.9	1.8	1.8	1.7	1.8	1.8
175°	1.9	2.2	2.3	1.8	1.8	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)