

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: P563584

Luminaire Tested: **24CGTS-L3C3-HIGH-5000K**

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563584
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-HIGH-5000K
Description: 2X4 CGTS WITH HIGH LUMEN SETTING AND 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

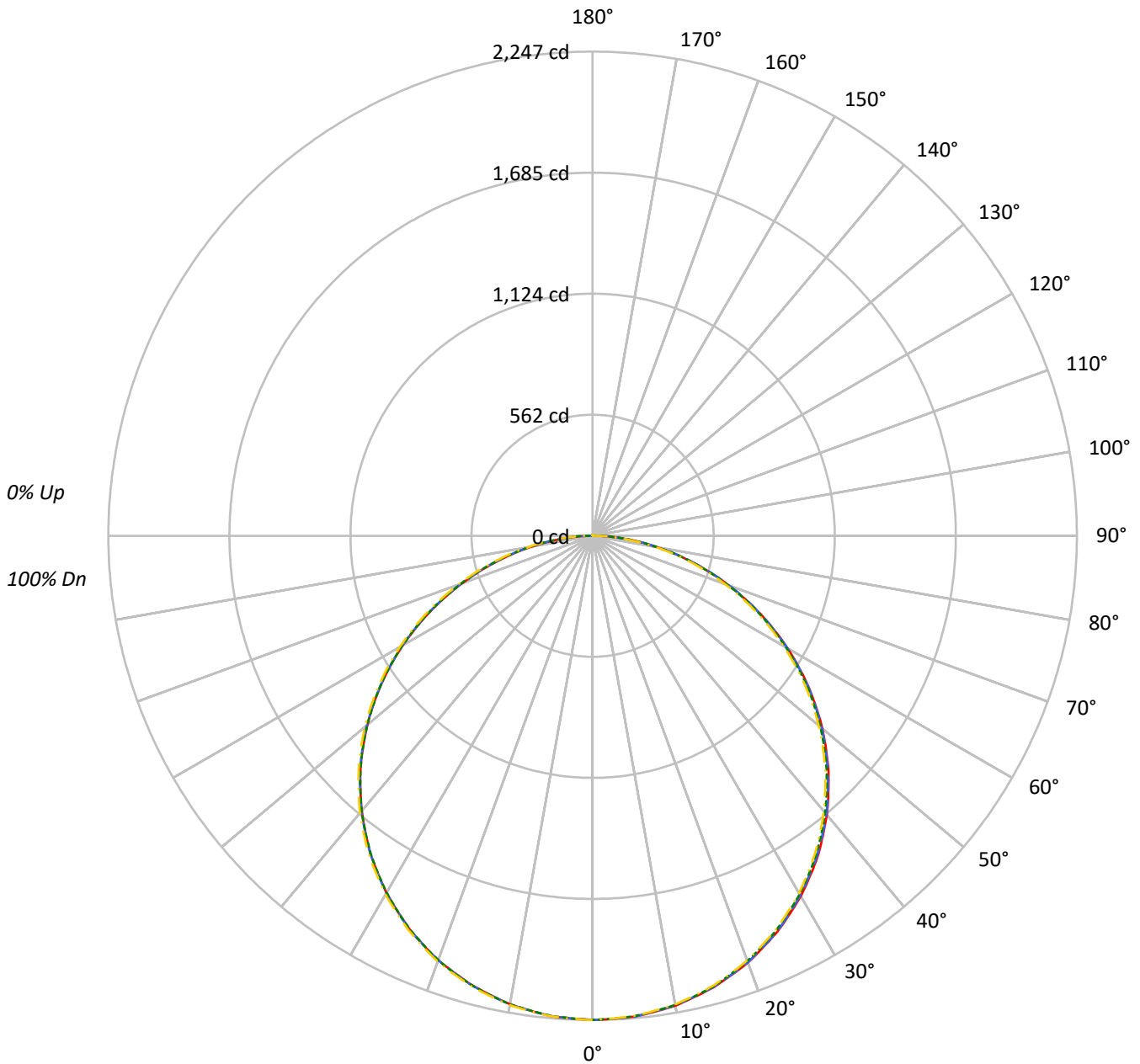
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 6648.0 lumens
Efficiency: 159.1%
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.8
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	189	189	189	189	185	185	185	185	177	177	177	169	169	169	162	162	162	159																			
1	172	164	157	151	168	161	154	149	154	149	144	148	143	139	142	138	135	132																			
2	156	143	132	122	152	140	130	121	134	125	118	129	122	115	124	118	113	109																			
3	142	125	112	101	138	123	110	100	118	107	98	113	104	97	109	101	95	91																			
4	130	111	96	85	126	108	95	85	104	93	84	101	91	82	97	88	81	78																			
5	120	99	84	73	116	97	83	73	93	81	72	90	80	71	87	78	70	67																			
6	110	89	74	64	107	87	74	64	84	72	63	82	71	62	79	69	62	58																			
7	102	80	66	56	99	79	66	56	77	64	56	74	63	55	72	62	55	52																			
8	95	73	60	50	93	72	59	50	70	58	50	68	57	49	66	56	49	46																			
9	89	67	54	45	87	66	54	45	64	53	45	63	52	44	61	51	44	41																			
10	83	62	49	41	81	61	49	41	60	48	40	58	48	40	57	47	40	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3024	3024	3024	3024
5°	3025	3022	3022	3020
10°	3025	3020	3016	3016
15°	3022	3017	3008	3010
20°	3018	3007	3001	3001
25°	3010	2997	2988	2987
30°	3001	2984	2972	2971
35°	2989	2970	2954	2952
40°	2969	2948	2927	2929
45°	2946	2921	2898	2898
50°	2913	2888	2855	2857
55°	2869	2848	2806	2808
60°	2812	2788	2736	2743
65°	2737	2713	2646	2659
70°	2642	2621	2530	2555
75°	2519	2509	2385	2428
80°	2352	2359	2181	2271
85°	2191	2095	1874	2046



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	212.7	3.2	5.1	0°	2247	2247	2247	2247	2247	
10°-20°	610.8	9.2	14.6	5°	2240	2238	2237	2236	2240	213
20°-30°	930.2	14.0	22.3	15°	2169	2166	2160	2161	2169	613
30°-40°	1129.3	17.0	27.0	25°	2028	2019	2013	2012	2028	935
40°-50°	1181.4	17.8	28.3	35°	1820	1808	1798	1797	1820	1138
50°-60°	1078.4	16.2	25.8	45°	1548	1535	1523	1523	1548	1194
60°-70°	836.1	12.6	20.0	55°	1223	1214	1196	1197	1223	1093
70°-80°	502.1	7.6	12.0	65°	860	852	831	835	860	851
80°-90°	155.6	2.3	3.7	75°	485	483	459	467	485	513
90°-100°	3.7	0.1	0.1	85°	142	136	121	132	142	151
100°-110°	1.4	0.0	0.0	90°	10	10	4	15	10	22
110°-120°	1.3	0.0	0.0	95°	2	1	2	1	2	3
120°-130°	1.1	0.0	0.0	105°	2	1	2	1	2	2
130°-140°	1.0	0.0	0.0	115°	1	1	2	1	1	1
140°-150°	1.1	0.0	0.0	125°	1	1	1	1	1	1
150°-160°	1.0	0.0	0.0	135°	1	2	1	1	1	1
160°-170°	0.7	0.0	0.0	145°	2	2	2	2	2	1
170°-180°	0.2	0.0	0.0	155°	2	3	2	2	2	1
0°-30°	1753.7	26.4	42.0	165°	2	3	2	2	2	1
0°-40°	2883.0	43.4	69.0	175°	2	3	2	3	2	0
0°-60°	5142.7	77.4	123.0	180°	2	2	2	2	2	
0°-90°	6636.5	99.8	158.8							
90°-120°	6.5	0.1	0.2							
90°-150°	9.6	0.1	0.2							
90°-180°	12.0	0.2	0.3							
0°-180°	6648.0	100.0	159.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2
5°	2239.8	2238.9	2240.0	2237.0	2237.6	2238.1	2237.1	2235.8	2237.2	2235.7	2237.1
10°	2214.3	2213.0	2211.7	2210.3	2210.6	2211.0	2208.2	2206.7	2207.6	2206.6	2208.8
15°	2169.4	2167.8	2167.2	2164.5	2165.7	2165.0	2161.8	2159.0	2159.6	2159.3	2161.1
20°	2107.9	2108.2	2106.0	2101.3	2100.2	2098.0	2097.6	2094.2	2096.1	2094.7	2096.2
25°	2027.6	2027.9	2025.4	2020.2	2018.9	2018.0	2014.8	2012.4	2012.7	2011.4	2013.0
30°	1931.4	1929.5	1926.9	1922.5	1920.9	1919.1	1915.5	1912.6	1912.8	1912.4	1914.9
35°	1819.6	1816.8	1814.5	1809.9	1808.0	1802.6	1799.2	1797.5	1798.3	1797.1	1798.5
40°	1690.5	1688.0	1687.5	1679.6	1678.6	1673.1	1668.9	1666.6	1666.5	1666.7	1669.1
45°	1548.1	1545.9	1542.7	1537.0	1535.2	1530.3	1526.1	1522.3	1522.8	1522.0	1524.6
50°	1391.6	1390.3	1388.0	1381.8	1379.8	1373.9	1369.4	1365.5	1364.0	1364.5	1366.8
55°	1223.2	1222.9	1220.3	1213.3	1213.9	1206.3	1200.4	1196.2	1196.1	1196.0	1197.3
60°	1045.0	1045.3	1042.7	1036.0	1036.0	1028.4	1022.6	1018.9	1016.7	1016.5	1019.0
65°	859.6	861.0	859.5	853.0	852.3	845.1	838.6	833.1	831.1	830.4	834.5
70°	671.7	672.6	672.8	667.4	666.2	659.1	651.9	646.0	643.2	643.2	646.9
75°	484.6	485.7	487.5	483.0	482.7	475.7	469.0	462.6	458.7	460.1	464.2
80°	303.6	306.2	306.4	302.6	304.5	298.0	292.1	284.8	281.5	283.1	288.7
85°	141.9	142.3	137.9	133.1	135.7	130.6	125.8	123.2	121.4	122.2	127.0
90°	10.0	9.0	7.6	6.3	9.7	8.4	6.8	5.0	3.9	5.6	9.4
95°	1.8	2.0	1.4	1.2	0.9	0.9	1.1	1.7	1.6	1.6	1.0
100°	1.8	1.7	1.2	1.0	0.9	0.9	1.1	1.8	2.0	1.7	1.0
105°	1.7	1.5	1.2	0.9	0.9	1.0	1.4	2.1	2.0	2.2	1.1
110°	1.5	1.2	1.2	0.9	1.1	1.1	1.6	2.1	2.0	2.1	1.6
115°	1.2	0.9	1.2	0.9	1.1	1.2	2.0	1.8	2.0	2.1	1.8
120°	0.9	0.6	1.2	0.9	1.1	1.4	2.1	0.9	1.9	1.3	2.0
125°	0.9	0.6	1.2	0.9	1.2	1.4	2.1	0.9	1.1	1.0	2.1
130°	0.9	0.6	1.2	0.9	1.4	1.6	2.1	0.9	1.1	1.0	2.1
135°	0.9	0.6	1.2	0.9	1.5	1.7	2.1	1.0	1.1	1.1	2.1
140°	0.9	0.7	1.2	1.0	1.7	2.0	2.2	1.2	1.2	1.4	2.1
145°	1.7	1.5	1.2	1.8	2.0	2.2	2.2	1.6	1.6	1.5	2.1
150°	2.0	2.1	2.0	2.2	2.3	2.4	2.6	2.0	2.0	1.7	2.1
155°	2.0	2.1	2.1	2.2	2.6	2.7	2.9	2.2	2.3	2.3	2.1
160°	2.2	2.1	2.1	2.2	3.1	2.9	3.2	2.4	2.3	2.3	2.3
165°	2.1	2.1	2.1	2.2	3.2	3.2	3.3	2.4	2.3	2.3	2.3
170°	2.3	2.2	2.2	2.3	3.3	3.2	3.5	2.4	2.3	2.3	2.2
175°	2.3	2.2	2.7	2.7	3.3	3.2	3.5	2.4	2.3	2.3	2.2
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2247.2	2247.2	2247.2	2247.2	2247.2	2247.2
5°	2236.4	2235.7	2238.7	2238.3	2237.5	2239.8
10°	2208.0	2207.8	2209.9	2211.5	2212.2	2214.3
15°	2160.1	2161.0	2163.2	2165.9	2167.6	2169.4
20°	2094.9	2096.1	2099.3	2102.7	2104.0	2107.9
25°	2011.5	2012.2	2016.3	2020.2	2024.7	2027.6
30°	1913.6	1912.1	1918.4	1922.0	1928.3	1931.4
35°	1798.3	1797.4	1802.5	1808.3	1815.9	1819.6
40°	1668.1	1667.6	1673.1	1680.0	1687.0	1690.5
45°	1523.9	1522.9	1528.7	1535.3	1543.0	1548.1
50°	1366.6	1364.8	1371.8	1379.4	1387.0	1391.6
55°	1198.4	1196.9	1202.6	1211.4	1217.2	1223.2
60°	1020.6	1019.4	1025.6	1033.7	1039.2	1045.0
65°	836.1	835.3	842.8	850.1	855.7	859.6
70°	650.7	649.5	657.3	664.2	667.7	671.7
75°	468.9	467.1	473.1	479.1	481.7	484.6
80°	295.1	293.1	298.7	301.4	302.4	303.6
85°	133.7	132.5	136.9	139.5	140.4	141.9
90°	13.9	14.9	16.4	15.2	12.4	10.0
95°	0.9	1.4	1.2	1.4	1.8	1.8
100°	0.9	1.0	1.0	1.2	1.7	1.8
105°	0.9	0.9	1.0	1.2	1.6	1.7
110°	1.1	0.9	0.9	1.2	1.2	1.5
115°	1.2	0.9	0.9	1.2	1.0	1.2
120°	1.4	0.9	0.9	1.2	0.7	0.9
125°	1.4	0.9	0.9	1.2	0.7	0.9
130°	1.5	0.9	0.9	1.2	0.7	0.9
135°	1.6	0.9	0.9	1.2	0.7	0.9
140°	1.8	1.1	1.0	1.2	0.7	0.9
145°	2.1	2.0	1.7	1.2	1.5	1.7
150°	2.3	2.0	2.1	2.2	2.0	2.0
155°	2.6	2.0	2.1	2.1	2.0	2.0
160°	2.6	2.1	2.2	2.2	2.0	2.2
165°	2.6	2.1	2.2	2.2	2.0	2.1
170°	2.6	2.3	2.3	2.2	2.3	2.3
175°	2.6	2.9	3.1	2.4	2.4	2.3
180°	2.3	2.3	2.3	2.3	2.3	2.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)