

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: P563583

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

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563583
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-4000K
Description: 2X4 CGTS WITH HIGH LUMEN SETTING AND 4000K CCT

Light Source: -
Ballast/Driver: -

Summary

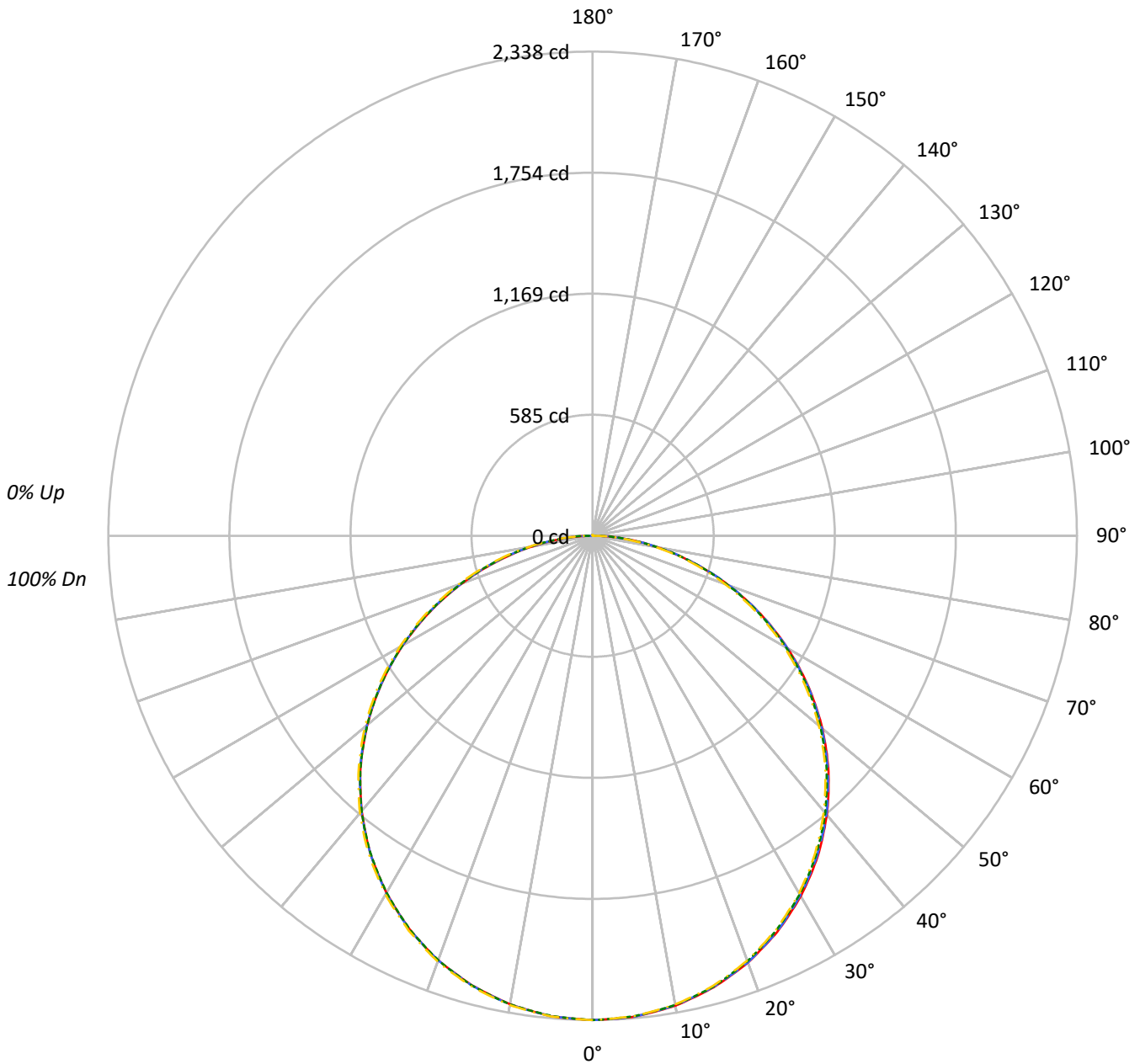
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 6918.0 lumens
Efficiency: 165.5%
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
Input Voltage (V): NR
Input Current (A_{in}): 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	197	197	197	197	192	192	192	192	184	184	184	176	176	176	169	169	169	165																			
1	179	171	164	157	175	167	161	155	160	155	150	154	149	145	148	144	141	137																			
2	163	149	137	127	158	145	135	126	139	130	123	134	126	120	129	123	117	113																			
3	148	130	116	105	144	128	115	104	122	111	102	118	108	101	114	106	99	95																			
4	135	115	100	89	131	113	99	88	109	97	87	105	94	86	101	92	85	81																			
5	124	103	88	76	121	101	87	76	97	85	75	94	83	74	91	81	73	70																			
6	115	92	77	66	112	91	77	66	88	75	66	85	74	65	82	72	64	61																			
7	106	84	69	59	103	82	68	58	80	67	58	77	66	57	75	65	57	54																			
8	99	76	62	52	96	75	61	52	73	60	52	71	60	51	69	59	51	48																			
9	92	70	56	47	90	69	56	47	67	55	46	65	54	46	63	53	46	43																			
10	87	64	51	42	84	64	51	42	62	50	42	60	50	42	59	49	42	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3146	3146	3146	3146
5°	3148	3145	3144	3142
10°	3148	3143	3139	3139
15°	3145	3139	3130	3132
20°	3141	3129	3123	3123
25°	3132	3119	3109	3109
30°	3123	3106	3093	3091
35°	3110	3090	3074	3072
40°	3090	3068	3046	3048
45°	3065	3040	3015	3016
50°	3031	3005	2971	2973
55°	2986	2963	2920	2922
60°	2926	2901	2847	2855
65°	2848	2824	2753	2768
70°	2750	2727	2633	2659
75°	2622	2611	2482	2527
80°	2448	2455	2270	2363
85°	2280	2180	1951	2129



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	90°	180°	270°	360°	Flux
0°-10°	221.4	3.2	5.3	0°	2338	2338	2338	2338	
10°-20°	635.6	9.2	15.2	5°	2331	2328	2328	2326	222
20°-30°	968.0	14.0	23.2	15°	2258	2254	2247	2249	637
30°-40°	1175.1	17.0	28.1	25°	2110	2101	2094	2094	973
40°-50°	1229.3	17.8	29.4	35°	1894	1881	1871	1870	1184
50°-60°	1122.2	16.2	26.8	45°	1611	1598	1585	1585	1242
60°-70°	870.1	12.6	20.8	55°	1273	1263	1245	1246	1137
70°-80°	522.4	7.6	12.5	65°	894	887	865	869	885
80°-90°	161.9	2.3	3.9	75°	504	502	477	486	534
90°-100°	3.9	0.1	0.1	85°	148	141	126	138	157
100°-110°	1.5	0.0	0.0	90°	10	10	4	16	23
110°-120°	1.4	0.0	0.0	95°	2	1	2	1	3
120°-130°	1.1	0.0	0.0	105°	2	1	2	1	2
130°-140°	1.0	0.0	0.0	115°	1	1	2	1	1
140°-150°	1.1	0.0	0.0	125°	1	1	1	1	1
150°-160°	1.1	0.0	0.0	135°	1	2	1	1	1
160°-170°	0.7	0.0	0.0	145°	2	2	2	2	1
170°-180°	0.3	0.0	0.0	155°	2	3	2	2	1
0°-30°	1824.9	26.4	43.7	165°	2	3	2	2	1
0°-40°	3000.1	43.4	71.8	175°	2	3	2	3	0
0°-60°	5351.6	77.4	128.0	180°	2	2	2	2	
0°-90°	6906.1	99.8	165.2						
90°-120°	6.7	0.1	0.2						
90°-150°	9.9	0.1	0.2						
90°-180°	12.0	0.2	0.3						
0°-180°	6918.0	100.0	165.5						



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5
5°	2330.8	2329.8	2331.0	2327.8	2328.5	2329.0	2327.9	2326.6	2328.0	2326.5	2327.9
10°	2304.2	2302.8	2301.5	2300.0	2300.4	2300.8	2297.8	2296.3	2297.2	2296.2	2298.5
15°	2257.5	2255.9	2255.2	2252.4	2253.7	2252.9	2249.6	2246.7	2247.3	2247.0	2248.8
20°	2193.5	2193.8	2191.6	2186.6	2185.5	2183.3	2182.8	2179.2	2181.2	2179.8	2181.3
25°	2109.9	2110.2	2107.6	2102.3	2100.9	2099.9	2096.6	2094.2	2094.5	2093.1	2094.8
30°	2009.8	2007.8	2005.2	2000.5	1999.0	1997.0	1993.3	1990.2	1990.5	1990.0	1992.7
35°	1893.5	1890.6	1888.2	1883.4	1881.4	1875.8	1872.3	1870.5	1871.3	1870.1	1871.5
40°	1759.2	1756.5	1756.0	1747.8	1746.8	1741.1	1736.7	1734.3	1734.2	1734.4	1736.9
45°	1611.0	1608.7	1605.4	1599.4	1597.6	1592.4	1588.1	1584.1	1584.7	1583.8	1586.6
50°	1448.1	1446.8	1444.4	1437.9	1435.8	1429.7	1425.0	1420.9	1419.4	1419.9	1422.3
55°	1272.9	1272.6	1269.9	1262.6	1263.2	1255.3	1249.1	1244.8	1244.6	1244.6	1246.0
60°	1087.4	1087.8	1085.1	1078.1	1078.1	1070.2	1064.2	1060.3	1058.0	1057.7	1060.3
65°	894.5	896.0	894.4	887.6	886.9	879.5	872.6	866.9	864.8	864.2	868.4
70°	699.0	699.9	700.1	694.5	693.2	685.8	678.4	672.3	669.3	669.3	673.2
75°	504.3	505.4	507.3	502.6	502.3	495.0	488.1	481.4	477.4	478.7	483.0
80°	315.9	318.7	318.8	314.9	316.9	310.1	304.0	296.4	293.0	294.6	300.4
85°	147.7	148.1	143.5	138.5	141.2	135.9	130.9	128.2	126.4	127.2	132.2
90°	10.4	9.4	7.9	6.5	10.1	8.8	7.0	5.2	4.0	5.9	9.8
95°	1.9	2.0	1.4	1.3	0.9	0.9	1.1	1.8	1.7	1.7	1.0
100°	1.9	1.8	1.3	1.0	0.9	0.9	1.1	1.9	2.0	1.8	1.0
105°	1.8	1.5	1.3	0.9	0.9	1.0	1.4	2.2	2.0	2.3	1.1
110°	1.5	1.3	1.3	0.9	1.1	1.1	1.7	2.2	2.0	2.2	1.7
115°	1.3	0.9	1.3	0.9	1.1	1.3	2.0	1.9	2.0	2.2	1.9
120°	0.9	0.6	1.3	0.9	1.1	1.4	2.2	0.9	2.0	1.4	2.0
125°	0.9	0.6	1.3	0.9	1.3	1.4	2.2	0.9	1.1	1.0	2.2
130°	0.9	0.6	1.3	0.9	1.4	1.7	2.2	0.9	1.1	1.0	2.2
135°	0.9	0.6	1.3	0.9	1.5	1.8	2.2	1.0	1.1	1.1	2.2
140°	0.9	0.8	1.3	1.0	1.8	2.0	2.3	1.3	1.3	1.4	2.2
145°	1.8	1.5	1.3	1.9	2.0	2.3	2.3	1.7	1.7	1.5	2.2
150°	2.0	2.2	2.0	2.3	2.4	2.5	2.7	2.0	2.0	1.8	2.2
155°	2.0	2.2	2.2	2.3	2.7	2.8	3.1	2.3	2.4	2.4	2.2
160°	2.3	2.2	2.2	2.3	3.2	3.1	3.3	2.5	2.4	2.4	2.4
165°	2.2	2.2	2.2	2.3	3.3	3.3	3.4	2.5	2.4	2.4	2.4
170°	2.4	2.3	2.3	2.4	3.4	3.3	3.7	2.5	2.4	2.4	2.3
175°	2.4	2.3	2.8	2.8	3.4	3.3	3.7	2.5	2.4	2.4	2.3
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5
5°	2327.3	2326.5	2329.6	2329.2	2328.4	2330.8
10°	2297.6	2297.5	2299.6	2301.4	2302.1	2304.2
15°	2247.8	2248.8	2251.1	2253.9	2255.7	2257.5
20°	2180.0	2181.2	2184.6	2188.1	2189.5	2193.5
25°	2093.2	2093.9	2098.2	2102.3	2107.0	2109.9
30°	1991.3	1989.8	1996.3	2000.1	2006.6	2009.8
35°	1871.3	1870.4	1875.7	1881.8	1889.7	1893.5
40°	1735.9	1735.3	1741.0	1748.2	1755.5	1759.2
45°	1585.8	1584.8	1590.8	1597.6	1605.6	1611.0
50°	1422.1	1420.2	1427.6	1435.4	1443.3	1448.1
55°	1247.1	1245.5	1251.5	1260.6	1266.6	1272.9
60°	1062.1	1060.8	1067.3	1075.7	1081.4	1087.4
65°	870.0	869.3	877.1	884.6	890.5	894.5
70°	677.1	675.9	684.0	691.2	694.8	699.0
75°	488.0	486.1	492.3	498.5	501.3	504.3
80°	307.1	305.0	310.8	313.7	314.7	315.9
85°	139.1	137.9	142.4	145.2	146.1	147.7
90°	14.5	15.5	17.1	15.8	12.9	10.4
95°	0.9	1.4	1.3	1.4	1.9	1.9
100°	0.9	1.0	1.0	1.3	1.8	1.9
105°	0.9	0.9	1.0	1.3	1.7	1.8
110°	1.2	0.9	0.9	1.3	1.3	1.5
115°	1.3	0.9	0.9	1.3	1.0	1.3
120°	1.4	0.9	0.9	1.3	0.8	0.9
125°	1.4	0.9	0.9	1.3	0.8	0.9
130°	1.5	0.9	0.9	1.3	0.8	0.9
135°	1.7	0.9	0.9	1.3	0.8	0.9
140°	1.9	1.1	1.0	1.3	0.8	0.9
145°	2.2	2.0	1.8	1.3	1.5	1.8
150°	2.4	2.0	2.2	2.3	2.0	2.0
155°	2.7	2.0	2.2	2.2	2.0	2.0
160°	2.7	2.2	2.3	2.3	2.0	2.3
165°	2.7	2.2	2.3	2.3	2.0	2.2
170°	2.7	2.4	2.4	2.3	2.4	2.4
175°	2.7	3.1	3.2	2.5	2.5	2.4
180°	2.4	2.4	2.4	2.4	2.4	2.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)