

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: P563582

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

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563582
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-3500K
Description: 2X4 CGTS WITH HIGH LUMEN SETTING AND 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

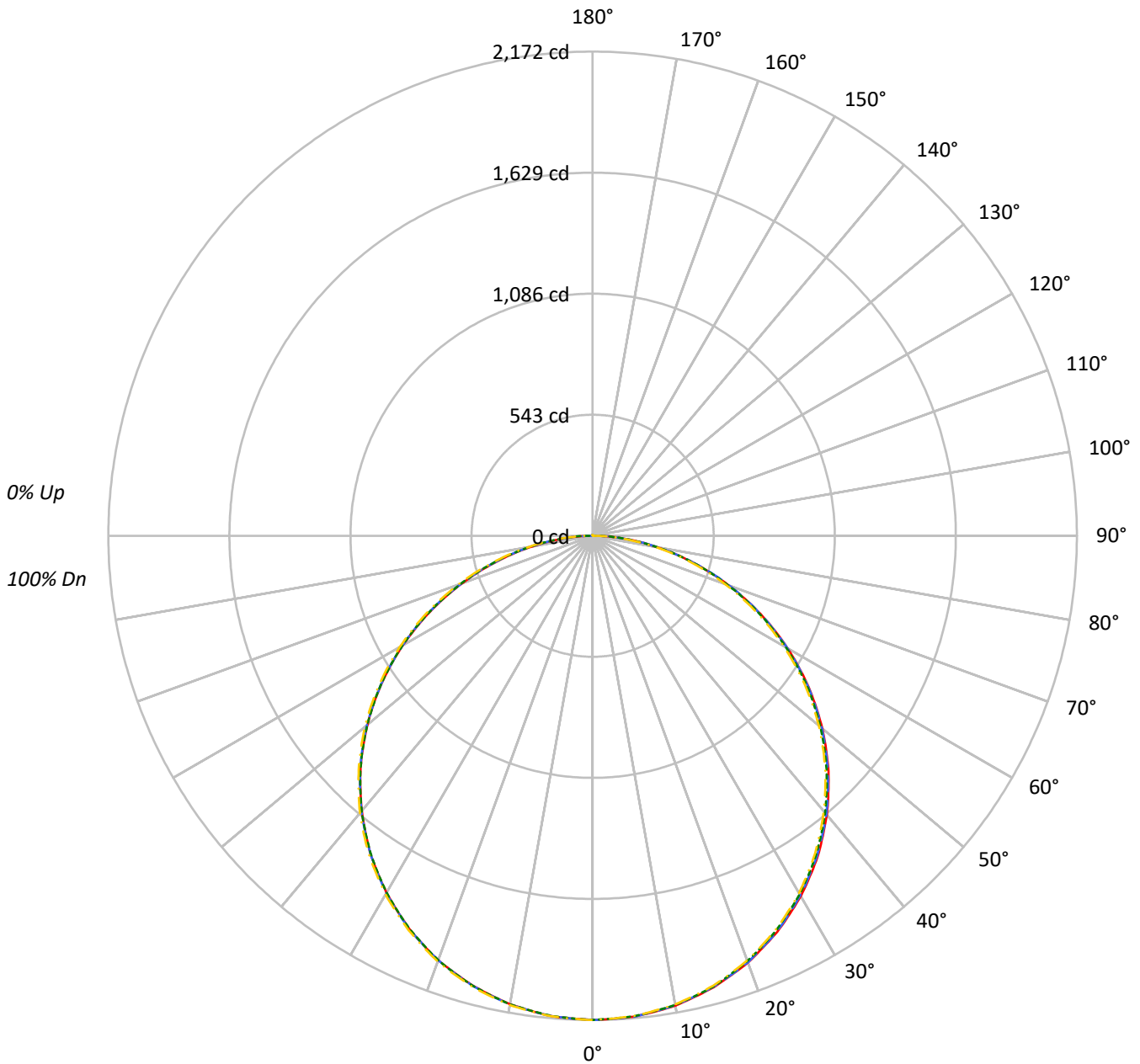
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 6426.0 lumens
Efficiency: 153.8%
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.8
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P563582

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

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	183	183	183	183	179	179	179	179	171	171	171	163	163	163	157	157	157	153				153				
1	167	159	152	146	162	155	149	144	149	144	139	143	139	135	137	134	131	127				127				
2	151	138	127	118	147	135	125	117	130	121	114	124	117	111	120	114	109	105				105				
3	138	121	108	98	134	118	107	97	114	104	95	109	101	93	105	98	92	88				88				
4	126	107	93	83	122	105	92	82	101	90	81	97	88	80	94	85	79	75				75				
5	116	95	81	71	112	94	80	71	90	79	70	87	77	69	84	75	68	65				65				
6	107	86	72	62	104	84	71	61	81	70	61	79	68	60	76	67	60	56				56				
7	99	78	64	54	96	76	63	54	74	62	54	72	61	53	70	60	53	50				50				
8	92	71	58	48	89	70	57	48	68	56	48	66	55	48	64	54	47	44				44				
9	86	65	52	44	84	64	52	43	62	51	43	61	50	43	59	50	43	40				40				
10	80	60	48	39	78	59	47	39	58	47	39	56	46	39	55	45	39	36				36				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2923	2923	2923	2923
5°	2924	2921	2921	2919
10°	2924	2919	2915	2916
15°	2921	2916	2908	2910
20°	2917	2907	2901	2901
25°	2910	2897	2888	2888
30°	2900	2885	2873	2871
35°	2889	2871	2855	2854
40°	2870	2850	2829	2831
45°	2847	2824	2801	2801
50°	2816	2792	2760	2761
55°	2773	2752	2712	2714
60°	2718	2695	2644	2652
65°	2645	2623	2557	2571
70°	2554	2533	2446	2470
75°	2435	2426	2305	2347
80°	2273	2281	2108	2195
85°	2118	2025	1812	1978



TEST NUMBER: P563582

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

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	205.6	3.2	4.9	0°	2172	2172	2172	2172	2172	
10°-20°	590.4	9.2	14.1	5°	2165	2163	2162	2161	2165	206
20°-30°	899.1	14.0	21.5	15°	2097	2093	2088	2089	2097	592
30°-40°	1091.6	17.0	26.1	25°	1960	1952	1946	1945	1960	904
40°-50°	1141.9	17.8	27.3	35°	1759	1748	1738	1737	1759	1100
50°-60°	1042.4	16.2	24.9	45°	1496	1484	1472	1472	1496	1154
60°-70°	808.2	12.6	19.3	55°	1182	1173	1156	1157	1182	1056
70°-80°	485.3	7.6	11.6	65°	831	824	803	807	831	822
80°-90°	150.4	2.3	3.6	75°	468	467	443	452	468	496
90°-100°	3.6	0.1	0.1	85°	137	131	117	128	137	146
100°-110°	1.4	0.0	0.0	90°	10	9	4	14	10	22
110°-120°	1.3	0.0	0.0	95°	2	1	2	1	2	3
120°-130°	1.0	0.0	0.0	105°	2	1	2	1	2	2
130°-140°	0.9	0.0	0.0	115°	1	1	2	1	1	1
140°-150°	1.0	0.0	0.0	125°	1	1	1	1	1	1
150°-160°	1.0	0.0	0.0	135°	1	1	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	2	2	2	2	1
0°-30°	1695.1	26.4	40.6	165°	2	3	2	2	2	1
0°-40°	2786.7	43.4	66.7	175°	2	3	2	3	2	0
0°-60°	4971.0	77.4	118.9	180°	2	2	2	2	2	
0°-90°	6414.9	99.8	153.5							
90°-120°	6.2	0.1	0.1							
90°-150°	9.2	0.1	0.2							
90°-180°	11.0	0.2	0.3							
0°-180°	6426.0	100.0	153.8							



TEST NUMBER: P563582

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2
5°	2165.0	2164.1	2165.2	2162.3	2162.9	2163.4	2162.4	2161.1	2162.5	2161.1	2162.4
10°	2140.3	2139.1	2137.8	2136.4	2136.8	2137.2	2134.4	2133.0	2133.8	2132.9	2135.1
15°	2097.0	2095.4	2094.8	2092.2	2093.4	2092.7	2089.6	2086.9	2087.5	2087.2	2088.9
20°	2037.5	2037.8	2035.7	2031.1	2030.1	2028.0	2027.5	2024.2	2026.1	2024.8	2026.2
25°	1959.9	1960.1	1957.7	1952.8	1951.5	1950.6	1947.5	1945.2	1945.5	1944.3	1945.8
30°	1866.9	1865.0	1862.6	1858.3	1856.8	1855.0	1851.5	1848.7	1848.9	1848.5	1851.0
35°	1758.8	1756.1	1753.9	1749.5	1747.6	1742.4	1739.1	1737.5	1738.2	1737.1	1738.4
40°	1634.1	1631.6	1631.1	1623.5	1622.6	1617.3	1613.2	1611.0	1610.9	1611.0	1613.4
45°	1496.4	1494.2	1491.2	1485.6	1484.0	1479.2	1475.2	1471.4	1472.0	1471.2	1473.7
50°	1345.1	1343.9	1341.7	1335.7	1333.7	1328.0	1323.7	1319.9	1318.5	1318.9	1321.1
55°	1182.3	1182.1	1179.6	1172.8	1173.3	1166.1	1160.3	1156.3	1156.1	1156.1	1157.4
60°	1010.1	1010.4	1007.9	1001.4	1001.4	994.1	988.5	984.9	982.7	982.5	984.9
65°	830.9	832.3	830.8	824.5	823.8	816.9	810.6	805.3	803.3	802.7	806.7
70°	649.2	650.2	650.3	645.1	643.9	637.1	630.1	624.5	621.7	621.7	625.3
75°	468.4	469.5	471.3	466.9	466.6	459.8	453.4	447.1	443.4	444.7	448.7
80°	293.4	296.0	296.2	292.5	294.4	288.0	282.3	275.3	272.1	273.6	279.0
85°	137.2	137.6	133.3	128.6	131.2	126.3	121.6	119.1	117.4	118.1	122.8
90°	9.7	8.7	7.4	6.1	9.4	8.2	6.5	4.8	3.7	5.5	9.1
95°	1.8	1.9	1.3	1.2	0.8	0.8	1.1	1.7	1.5	1.5	1.0
100°	1.8	1.7	1.2	1.0	0.8	0.8	1.1	1.8	1.9	1.7	1.0
105°	1.7	1.4	1.2	0.8	0.8	1.0	1.3	2.0	1.9	2.1	1.1
110°	1.4	1.2	1.2	0.8	1.1	1.1	1.5	2.0	1.9	2.0	1.5
115°	1.2	0.8	1.2	0.8	1.1	1.2	1.9	1.8	1.9	2.0	1.8
120°	0.8	0.6	1.2	0.8	1.1	1.3	2.0	0.8	1.9	1.3	1.9
125°	0.8	0.6	1.2	0.8	1.2	1.3	2.0	0.8	1.1	1.0	2.0
130°	0.8	0.6	1.2	0.8	1.3	1.5	2.0	0.8	1.1	1.0	2.0
135°	0.8	0.6	1.2	0.8	1.4	1.7	2.0	1.0	1.1	1.1	2.0
140°	0.8	0.7	1.2	0.9	1.7	1.9	2.1	1.2	1.2	1.3	2.0
145°	1.7	1.4	1.2	1.8	1.9	2.1	2.1	1.5	1.5	1.4	2.0
150°	1.9	2.0	1.9	2.1	2.2	2.4	2.5	1.9	1.9	1.7	2.0
155°	1.9	2.0	2.0	2.1	2.5	2.6	2.8	2.1	2.2	2.2	2.0
160°	2.1	2.0	2.0	2.1	3.0	2.8	3.1	2.4	2.2	2.2	2.2
165°	2.0	2.0	2.0	2.1	3.1	3.1	3.2	2.4	2.2	2.2	2.2
170°	2.2	2.1	2.1	2.2	3.2	3.1	3.4	2.4	2.2	2.2	2.1
175°	2.2	2.1	2.6	2.6	3.2	3.1	3.4	2.4	2.2	2.2	2.1
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



TEST NUMBER: P563582

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2172.2	2172.2	2172.2	2172.2	2172.2	2172.2
5°	2161.7	2161.1	2164.0	2163.6	2162.8	2165.0
10°	2134.2	2134.1	2136.1	2137.7	2138.4	2140.3
15°	2088.0	2088.8	2091.0	2093.6	2095.2	2097.0
20°	2025.0	2026.1	2029.2	2032.5	2033.8	2037.5
25°	1944.3	1945.0	1949.0	1952.7	1957.1	1959.9
30°	1849.7	1848.2	1854.4	1857.8	1863.9	1866.9
35°	1738.2	1737.4	1742.3	1747.9	1755.3	1758.8
40°	1612.4	1611.9	1617.2	1623.9	1630.6	1634.1
45°	1473.1	1472.1	1477.7	1484.0	1491.5	1496.4
50°	1321.0	1319.2	1326.0	1333.3	1340.7	1345.1
55°	1158.4	1156.9	1162.5	1171.0	1176.5	1182.3
60°	986.5	985.4	991.4	999.2	1004.5	1010.1
65°	808.2	807.4	814.7	821.7	827.2	830.9
70°	629.0	627.9	635.3	642.0	645.4	649.2
75°	453.3	451.5	457.3	463.1	465.7	468.4
80°	285.3	283.3	288.7	291.4	292.3	293.4
85°	129.2	128.1	132.3	134.9	135.7	137.2
90°	13.4	14.4	15.9	14.7	12.0	9.7
95°	0.8	1.3	1.2	1.3	1.8	1.8
100°	0.8	1.0	1.0	1.2	1.7	1.8
105°	0.8	0.8	1.0	1.2	1.5	1.7
110°	1.1	0.8	0.8	1.2	1.2	1.4
115°	1.2	0.8	0.8	1.2	1.0	1.2
120°	1.3	0.8	0.8	1.2	0.7	0.8
125°	1.3	0.8	0.8	1.2	0.7	0.8
130°	1.4	0.8	0.8	1.2	0.7	0.8
135°	1.5	0.8	0.8	1.2	0.7	0.8
140°	1.8	1.1	1.0	1.2	0.7	0.8
145°	2.0	1.9	1.7	1.2	1.4	1.7
150°	2.2	1.9	2.0	2.1	1.9	1.9
155°	2.5	1.9	2.0	2.0	1.9	1.9
160°	2.5	2.0	2.1	2.1	1.9	2.1
165°	2.5	2.0	2.1	2.1	1.9	2.0
170°	2.5	2.2	2.2	2.1	2.2	2.2
175°	2.5	2.8	3.0	2.4	2.3	2.2
180°	2.2	2.2	2.2	2.2	2.2	2.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)