

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: P563587

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

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563587
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-LOW-5000K
Description: 2X4 CGTS WITH LOW LUMEN SETTING AND 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

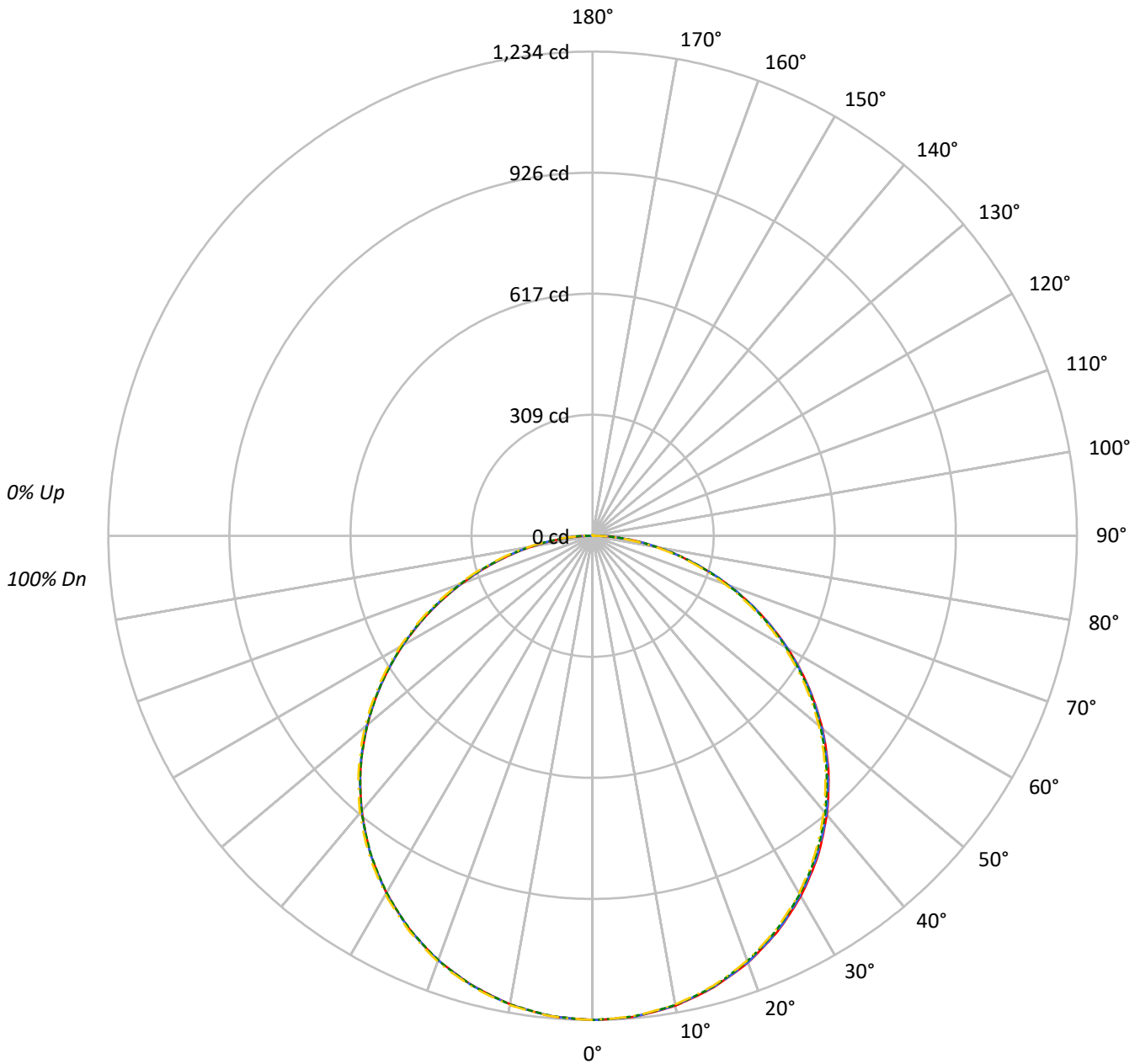
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 3651.0 lumens
Efficiency: 87.4%
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.8
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				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	104	104	104	104	102	102	102	102	97	97	97	93	93	93	89	89	89	89	89	89	87
1	95	90	86	83	92	88	85	82	85	82	79	81	79	77	78	76	74	78	76	74	72
2	86	78	72	67	84	77	71	66	74	69	65	71	67	63	68	65	62	68	65	62	60
3	78	69	61	56	76	67	61	55	65	59	54	62	57	53	60	56	52	60	56	52	50
4	71	61	53	47	69	60	52	47	57	51	46	55	50	45	53	49	45	53	49	45	43
5	66	54	46	40	64	53	46	40	51	45	40	50	44	39	48	43	39	48	43	39	37
6	61	49	41	35	59	48	40	35	46	40	35	45	39	34	43	38	34	43	38	34	32
7	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28
8	52	40	33	28	51	40	32	27	38	32	27	37	31	27	36	31	27	36	31	27	25
9	49	37	30	25	48	36	29	25	35	29	25	34	29	24	33	28	24	33	28	24	23
10	46	34	27	22	45	34	27	22	33	27	22	32	26	22	31	26	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1660	1660	1660	1660
5°	1661	1660	1659	1658
10°	1661	1659	1656	1657
15°	1660	1657	1652	1653
20°	1657	1651	1648	1648
25°	1653	1646	1641	1641
30°	1648	1639	1632	1631
35°	1641	1631	1622	1621
40°	1631	1619	1607	1609
45°	1618	1604	1591	1592
50°	1600	1586	1568	1569
55°	1576	1564	1541	1542
60°	1544	1531	1503	1507
65°	1503	1490	1453	1461
70°	1451	1439	1389	1403
75°	1383	1378	1310	1333
80°	1292	1296	1198	1247
85°	1203	1150	1030	1124



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	116.8	3.2	2.8	0°	1234	1234	1234	1234	1234	
10°-20°	335.4	9.2	8.0	5°	1230	1229	1229	1228	1230	117
20°-30°	510.8	14.0	12.2	15°	1191	1189	1186	1187	1191	336
30°-40°	620.2	17.0	14.8	25°	1114	1109	1105	1105	1114	513
40°-50°	648.8	17.8	15.5	35°	999	993	988	987	999	625
50°-60°	592.2	16.2	14.2	45°	850	843	836	836	850	656
60°-70°	459.2	12.6	11.0	55°	672	667	657	657	672	600
70°-80°	275.7	7.6	6.6	65°	472	468	456	459	472	467
80°-90°	85.5	2.3	2.0	75°	266	265	252	256	266	282
90°-100°	2.0	0.1	0.0	85°	78	74	67	73	78	83
100°-110°	0.8	0.0	0.0	90°	6	5	2	8	6	12
110°-120°	0.7	0.0	0.0	95°	1	0	1	1	1	2
120°-130°	0.6	0.0	0.0	105°	1	0	1	0	1	1
130°-140°	0.5	0.0	0.0	115°	1	1	1	0	1	1
140°-150°	0.6	0.0	0.0	125°	0	1	1	0	0	0
150°-160°	0.6	0.0	0.0	135°	0	1	1	0	0	0
160°-170°	0.4	0.0	0.0	145°	1	1	1	1	1	1
170°-180°	0.1	0.0	0.0	155°	1	1	1	1	1	1
0°-30°	963.1	26.4	23.0	165°	1	2	1	1	1	0
0°-40°	1583.3	43.4	37.9	175°	1	2	1	2	1	0
0°-60°	2824.3	77.4	67.6	180°	1	1	1	1	1	
0°-90°	3644.7	99.8	87.2							
90°-120°	3.5	0.1	0.1							
90°-150°	5.2	0.1	0.1							
90°-180°	6.0	0.2	0.1							
0°-180°	3651.0	100.0	87.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1
5°	1230.1	1229.6	1230.2	1228.5	1228.9	1229.2	1228.6	1227.8	1228.6	1227.8	1228.6
10°	1216.1	1215.3	1214.6	1213.8	1214.0	1214.3	1212.7	1211.9	1212.4	1211.8	1213.1
15°	1191.4	1190.5	1190.2	1188.7	1189.4	1189.0	1187.2	1185.7	1186.0	1185.9	1186.8
20°	1157.6	1157.8	1156.6	1154.0	1153.4	1152.2	1152.0	1150.1	1151.2	1150.4	1151.2
25°	1113.5	1113.7	1112.3	1109.5	1108.8	1108.2	1106.5	1105.2	1105.4	1104.7	1105.5
30°	1060.7	1059.6	1058.2	1055.8	1055.0	1053.9	1052.0	1050.4	1050.5	1050.3	1051.6
35°	999.3	997.8	996.5	994.0	992.9	990.0	988.1	987.2	987.6	986.9	987.7
40°	928.4	927.0	926.7	922.4	921.9	918.9	916.6	915.3	915.2	915.3	916.6
45°	850.2	849.0	847.2	844.1	843.1	840.4	838.1	836.0	836.3	835.9	837.3
50°	764.2	763.5	762.3	758.9	757.8	754.5	752.1	749.9	749.1	749.4	750.6
55°	671.8	671.6	670.2	666.3	666.6	662.5	659.2	656.9	656.9	656.8	657.6
60°	573.9	574.1	572.6	568.9	569.0	564.8	561.6	559.6	558.4	558.2	559.6
65°	472.1	472.9	472.0	468.4	468.1	464.1	460.5	457.5	456.4	456.1	458.3
70°	368.9	369.4	369.5	366.5	365.8	361.9	358.0	354.8	353.2	353.2	355.3
75°	266.1	266.7	267.8	265.3	265.1	261.3	257.6	254.1	251.9	252.7	254.9
80°	166.7	168.2	168.3	166.2	167.2	163.7	160.4	156.4	154.6	155.5	158.5
85°	77.9	78.2	75.7	73.1	74.5	71.7	69.1	67.6	66.7	67.1	69.8
90°	5.5	4.9	4.2	3.4	5.3	4.6	3.7	2.7	2.1	3.1	5.2
95°	1.0	1.1	0.7	0.7	0.5	0.5	0.6	0.9	0.9	0.9	0.5
100°	1.0	0.9	0.7	0.5	0.5	0.5	0.6	1.0	1.1	0.9	0.5
105°	0.9	0.8	0.7	0.5	0.5	0.5	0.7	1.1	1.1	1.2	0.6
110°	0.8	0.7	0.7	0.5	0.6	0.6	0.9	1.1	1.1	1.1	0.9
115°	0.7	0.5	0.7	0.5	0.6	0.7	1.1	1.0	1.1	1.1	1.0
120°	0.5	0.3	0.7	0.5	0.6	0.7	1.1	0.5	1.1	0.7	1.1
125°	0.5	0.3	0.7	0.5	0.7	0.7	1.1	0.5	0.6	0.5	1.1
130°	0.5	0.3	0.7	0.5	0.7	0.9	1.1	0.5	0.6	0.5	1.1
135°	0.5	0.3	0.7	0.5	0.8	0.9	1.1	0.5	0.6	0.6	1.1
140°	0.5	0.4	0.7	0.5	0.9	1.1	1.2	0.7	0.7	0.7	1.1
145°	0.9	0.8	0.7	1.0	1.1	1.2	1.2	0.9	0.9	0.8	1.1
150°	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.1	1.1	0.9	1.1
155°	1.1	1.1	1.1	1.2	1.4	1.5	1.6	1.2	1.3	1.3	1.1
160°	1.2	1.1	1.1	1.2	1.7	1.6	1.7	1.3	1.3	1.3	1.3
165°	1.1	1.1	1.1	1.2	1.7	1.7	1.8	1.3	1.3	1.3	1.3
170°	1.3	1.2	1.2	1.3	1.8	1.7	1.9	1.3	1.3	1.3	1.2
175°	1.3	1.2	1.5	1.5	1.8	1.7	1.9	1.3	1.3	1.3	1.2
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1
5°	1228.2	1227.8	1229.5	1229.2	1228.8	1230.1
10°	1212.6	1212.5	1213.6	1214.6	1214.9	1216.1
15°	1186.3	1186.8	1188.0	1189.5	1190.4	1191.4
20°	1150.5	1151.1	1152.9	1154.8	1155.5	1157.6
25°	1104.7	1105.1	1107.4	1109.5	1112.0	1113.5
30°	1050.9	1050.1	1053.6	1055.5	1059.0	1060.7
35°	987.6	987.1	989.9	993.1	997.3	999.3
40°	916.1	915.8	918.8	922.6	926.5	928.4
45°	836.9	836.4	839.6	843.2	847.4	850.2
50°	750.5	749.5	753.4	757.6	761.7	764.2
55°	658.2	657.3	660.5	665.3	668.5	671.8
60°	560.5	559.9	563.3	567.7	570.7	573.9
65°	459.2	458.8	462.9	466.9	470.0	472.1
70°	357.4	356.7	361.0	364.8	366.7	368.9
75°	257.5	256.5	259.8	263.1	264.6	266.1
80°	162.1	161.0	164.0	165.6	166.1	166.7
85°	73.4	72.8	75.2	76.6	77.1	77.9
90°	7.6	8.2	9.0	8.4	6.8	5.5
95°	0.5	0.7	0.7	0.7	1.0	1.0
100°	0.5	0.5	0.5	0.7	0.9	1.0
105°	0.5	0.5	0.5	0.7	0.9	0.9
110°	0.6	0.5	0.5	0.7	0.7	0.8
115°	0.7	0.5	0.5	0.7	0.5	0.7
120°	0.7	0.5	0.5	0.7	0.4	0.5
125°	0.7	0.5	0.5	0.7	0.4	0.5
130°	0.8	0.5	0.5	0.7	0.4	0.5
135°	0.9	0.5	0.5	0.7	0.4	0.5
140°	1.0	0.6	0.5	0.7	0.4	0.5
145°	1.1	1.1	0.9	0.7	0.8	0.9
150°	1.3	1.1	1.1	1.2	1.1	1.1
155°	1.4	1.1	1.1	1.1	1.1	1.1
160°	1.4	1.1	1.2	1.2	1.1	1.2
165°	1.4	1.1	1.2	1.2	1.1	1.1
170°	1.4	1.3	1.3	1.2	1.3	1.3
175°	1.4	1.6	1.7	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3	1.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)