

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: P563573

Luminaire Tested: **22CGTS-L3C3-HIGH-3500K**

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LCS210329025BSA)
Test Lab:
Issue Date: 8/1/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CGTS-L3C3-HIGH-3500K
Description: 2X2 CGTS WITH HIGH LUMEN SETTING AND 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

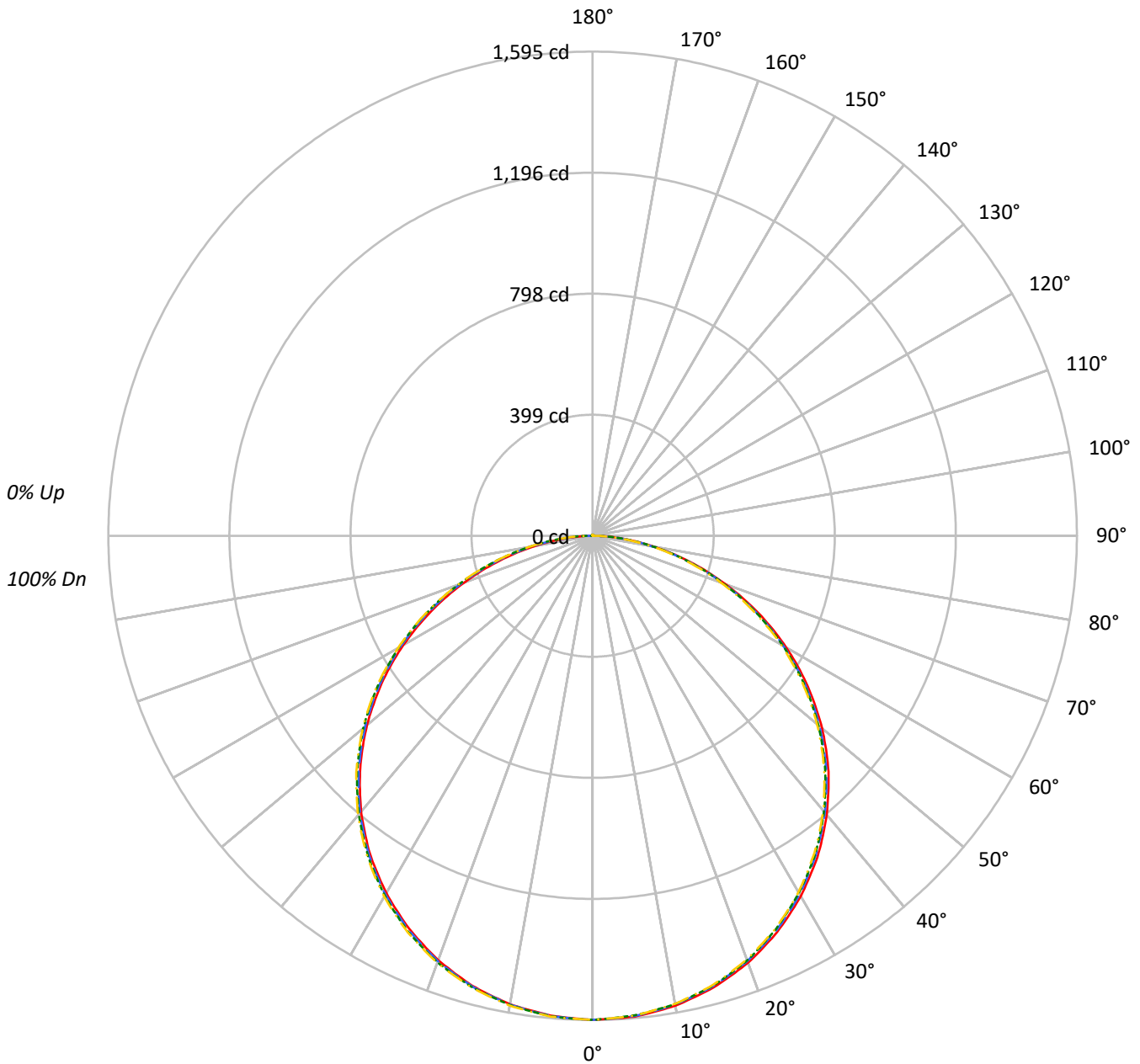
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 4700.0 lumens
Efficiency: 133.9%
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.6
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	159	159	159	159	156	156	156	156	149	149	149	142	142	142	136	136	136	134																			
1	145	139	133	127	141	136	130	125	130	125	121	124	121	118	120	117	114	111																			
2	132	120	111	103	128	118	109	102	113	106	100	109	103	97	105	99	95	92																			
3	120	106	94	86	117	103	93	85	99	90	83	96	88	82	92	86	80	77																			
4	110	93	81	72	107	92	80	72	88	78	71	85	76	70	82	75	69	66																			
5	101	83	71	62	98	82	70	62	79	69	61	76	67	60	74	66	60	57																			
6	93	75	63	54	90	74	62	54	71	61	53	69	60	53	67	59	52	49																			
7	86	68	56	48	84	67	55	47	65	54	47	63	53	47	61	53	46	44																			
8	80	62	50	42	78	61	50	42	59	49	42	57	48	42	56	48	41	39																			
9	75	57	46	38	73	56	45	38	54	45	38	53	44	38	51	43	37	35																			
10	70	52	42	34	68	52	41	34	50	41	34	49	40	34	48	40	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4291	4291	4291	4291
5°	4295	4284	4285	4291
10°	4295	4280	4282	4289
15°	4291	4274	4274	4286
20°	4287	4263	4259	4282
25°	4275	4244	4244	4272
30°	4259	4221	4224	4254
35°	4242	4201	4202	4235
40°	4213	4166	4168	4207
45°	4180	4120	4121	4175
50°	4131	4062	4061	4127
55°	4060	3988	3981	4059
60°	3965	3890	3873	3969
65°	3835	3755	3726	3848
70°	3660	3589	3534	3697
75°	3436	3371	3285	3507
80°	3123	3099	2934	3282
85°	2689	2668	2405	2995



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	151.0	3.2	4.3	0°	1595	1595	1595	1595	1595	
10°-20°	433.8	9.2	12.4	5°	1590	1586	1586	1588	1590	151
20°-30°	661.0	14.1	18.8	15°	1540	1534	1534	1539	1540	435
30°-40°	803.0	17.1	22.9	25°	1440	1429	1429	1439	1440	664
40°-50°	840.0	17.9	23.9	35°	1291	1279	1279	1289	1291	808
50°-60°	765.0	16.3	21.8	45°	1098	1083	1083	1097	1098	847
60°-70°	588.7	12.5	16.8	55°	865	850	848	865	865	773
70°-80°	346.9	7.4	9.9	65°	602	590	585	604	602	596
80°-90°	102.7	2.2	2.9	75°	330	324	316	337	330	350
90°-100°	1.1	0.0	0.0	85°	87	86	78	97	87	96
100°-110°	0.7	0.0	0.0	90°	2	1	1	3	2	13
110°-120°	0.9	0.0	0.0	95°	1	1	1	1	1	1
120°-130°	0.9	0.0	0.0	105°	0	1	1	1	0	1
130°-140°	1.0	0.0	0.0	115°	0	1	1	1	0	0
140°-150°	1.2	0.0	0.0	125°	0	1	1	1	0	0
150°-160°	1.1	0.0	0.0	135°	1	2	2	1	1	1
160°-170°	0.7	0.0	0.0	145°	2	2	2	2	2	1
170°-180°	0.3	0.0	0.0	155°	2	3	3	2	2	1
0°-30°	1245.7	26.5	35.5	165°	2	3	3	2	2	1
0°-40°	2048.7	43.6	58.4	175°	3	4	3	3	3	0
0°-60°	3653.7	77.7	104.1	180°	3	3	3	3	3	
0°-90°	4692.0	99.8	133.6							
90°-120°	2.7	0.1	0.1							
90°-150°	5.8	0.1	0.2							
90°-180°	8.0	0.2	0.2							
0°-180°	4700.0	100.0	133.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6
5°	1589.9	1588.9	1588.0	1587.8	1585.9	1587.0	1586.4	1586.4	1586.4	1587.3	1587.7
10°	1571.8	1569.7	1567.9	1567.1	1566.4	1566.4	1565.4	1565.9	1567.1	1567.3	1568.1
15°	1540.4	1538.1	1535.7	1534.1	1534.1	1532.6	1531.7	1532.8	1534.3	1535.4	1536.5
20°	1496.9	1493.8	1490.2	1488.1	1488.8	1486.1	1485.2	1486.5	1487.4	1489.5	1491.0
25°	1439.7	1436.7	1433.5	1430.2	1429.3	1428.0	1426.7	1427.4	1429.2	1431.6	1433.7
30°	1370.8	1367.3	1363.8	1360.3	1358.5	1356.8	1356.1	1356.6	1359.3	1361.5	1364.7
35°	1291.4	1286.7	1282.4	1277.1	1278.7	1275.7	1273.8	1275.2	1279.0	1281.2	1284.2
40°	1199.4	1195.0	1189.7	1184.9	1185.8	1183.0	1181.7	1182.6	1186.4	1188.2	1192.3
45°	1098.4	1093.1	1088.3	1082.6	1082.7	1079.7	1077.6	1079.5	1082.8	1085.6	1089.1
50°	986.7	980.6	975.4	969.6	970.3	966.9	964.7	966.2	970.0	972.6	978.2
55°	865.4	859.9	854.5	849.1	850.0	846.7	843.4	844.6	848.5	851.6	857.5
60°	736.8	731.0	725.2	720.1	722.8	718.9	715.9	715.7	719.6	723.2	730.5
65°	602.3	597.2	591.9	587.3	589.8	586.5	582.5	581.4	585.1	589.7	597.2
70°	465.2	460.1	456.5	452.4	456.1	452.1	448.2	446.4	449.2	454.2	462.5
75°	330.5	326.6	323.6	320.8	324.2	321.1	316.9	314.3	316.0	321.4	329.8
80°	201.5	198.4	198.3	196.7	200.0	196.8	192.0	188.1	189.3	194.4	203.9
85°	87.1	84.7	84.1	83.8	86.4	83.6	78.6	76.6	77.9	81.6	88.8
90°	2.1	1.7	1.6	1.6	0.6	0.6	0.7	0.7	0.7	0.6	1.4
95°	0.8	0.8	0.8	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	0.5	0.6	0.6	0.6	0.6	0.8	0.7	0.6	0.6	0.6	0.6
105°	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.8	0.8	0.9
110°	0.5	0.5	0.6	0.5	1.0	1.1	1.2	1.0	0.9	1.0	1.2
115°	0.5	0.5	0.6	0.5	1.2	1.3	1.3	1.1	1.2	1.4	1.3
120°	0.5	0.5	0.6	0.5	1.3	1.5	1.6	1.1	1.3	1.3	1.6
125°	0.5	0.5	0.6	0.5	1.4	1.6	1.6	1.1	1.3	1.3	1.6
130°	0.5	0.5	0.6	0.5	1.5	2.0	1.8	1.4	1.5	1.8	1.9
135°	0.8	0.5	0.6	0.5	1.8	2.0	1.9	1.9	2.0	2.2	2.1
140°	1.3	1.0	0.6	0.8	2.0	2.2	2.1	2.1	2.1	2.4	2.3
145°	1.8	1.8	0.9	1.4	2.3	2.3	2.3	2.4	2.3	2.4	2.4
150°	1.8	1.8	1.8	1.8	2.5	2.6	2.7	2.7	2.4	2.7	2.7
155°	1.8	1.8	1.6	1.8	2.8	2.9	3.0	2.9	2.7	3.1	3.0
160°	1.8	1.8	1.6	1.8	3.2	3.3	3.3	2.9	3.1	3.1	3.4
165°	2.3	2.2	2.0	1.9	3.3	3.3	3.4	2.9	3.1	3.1	3.3
170°	2.5	2.6	2.3	2.5	3.4	3.3	3.6	2.9	3.1	3.1	3.4
175°	3.0	3.2	2.8	3.3	3.7	3.3	3.6	2.9	3.1	3.1	3.4
180°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6
5°	1588.3	1588.5	1590.2	1589.9	1590.1	1589.9
10°	1569.3	1569.6	1571.7	1571.6	1571.9	1571.8
15°	1538.1	1538.6	1540.8	1540.6	1540.9	1540.4
20°	1494.6	1495.2	1497.3	1497.0	1497.3	1496.9
25°	1437.3	1438.8	1441.4	1441.1	1441.4	1439.7
30°	1368.2	1369.2	1372.3	1373.4	1373.1	1370.8
35°	1288.1	1289.1	1292.3	1292.8	1292.3	1291.4
40°	1197.1	1197.7	1200.9	1201.6	1201.0	1199.4
45°	1094.7	1097.0	1099.6	1100.7	1099.4	1098.4
50°	982.8	985.9	987.9	988.8	987.9	986.7
55°	863.4	865.1	868.1	868.8	867.2	865.4
60°	736.5	737.4	740.6	740.7	738.4	736.8
65°	603.9	604.3	608.1	607.3	604.5	602.3
70°	469.2	469.9	473.0	471.8	468.0	465.2
75°	337.8	337.3	340.3	338.4	334.4	330.5
80°	212.6	211.8	213.9	212.1	206.2	201.5
85°	97.8	97.0	98.8	95.9	91.1	87.1
90°	3.7	3.0	4.2	4.3	3.2	2.1
95°	0.6	0.9	0.8	0.8	0.9	0.8
100°	0.6	0.6	0.7	0.7	0.6	0.5
105°	0.7	0.6	0.6	0.6	0.5	0.5
110°	1.0	0.6	0.6	0.6	0.5	0.5
115°	1.1	0.6	0.6	0.6	0.5	0.5
120°	1.3	0.6	0.6	0.6	0.5	0.5
125°	1.4	0.6	0.6	0.6	0.5	0.5
130°	1.8	0.6	0.6	0.6	0.5	0.5
135°	1.9	0.6	0.6	0.6	0.6	0.8
140°	2.0	1.3	1.3	0.6	1.2	1.3
145°	2.3	1.6	1.8	1.0	1.6	1.8
150°	2.6	1.8	1.8	1.6	1.8	1.8
155°	2.9	1.8	1.8	1.6	1.8	1.8
160°	3.0	1.8	1.8	1.6	1.8	1.8
165°	3.0	2.0	2.0	1.9	2.1	2.3
170°	3.0	2.4	2.5	2.3	2.4	2.5
175°	3.0	3.1	3.4	2.7	3.1	3.0
180°	3.0	3.0	3.0	3.0	3.0	3.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)