

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: P563590

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

Issue Date: 8/1/2022



Test Information

Test Method: LM-79-08
Report Number: P563590
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-MID-5000K
Description: 2X4 CGTS WITH MID LUMEN SETTING AND 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

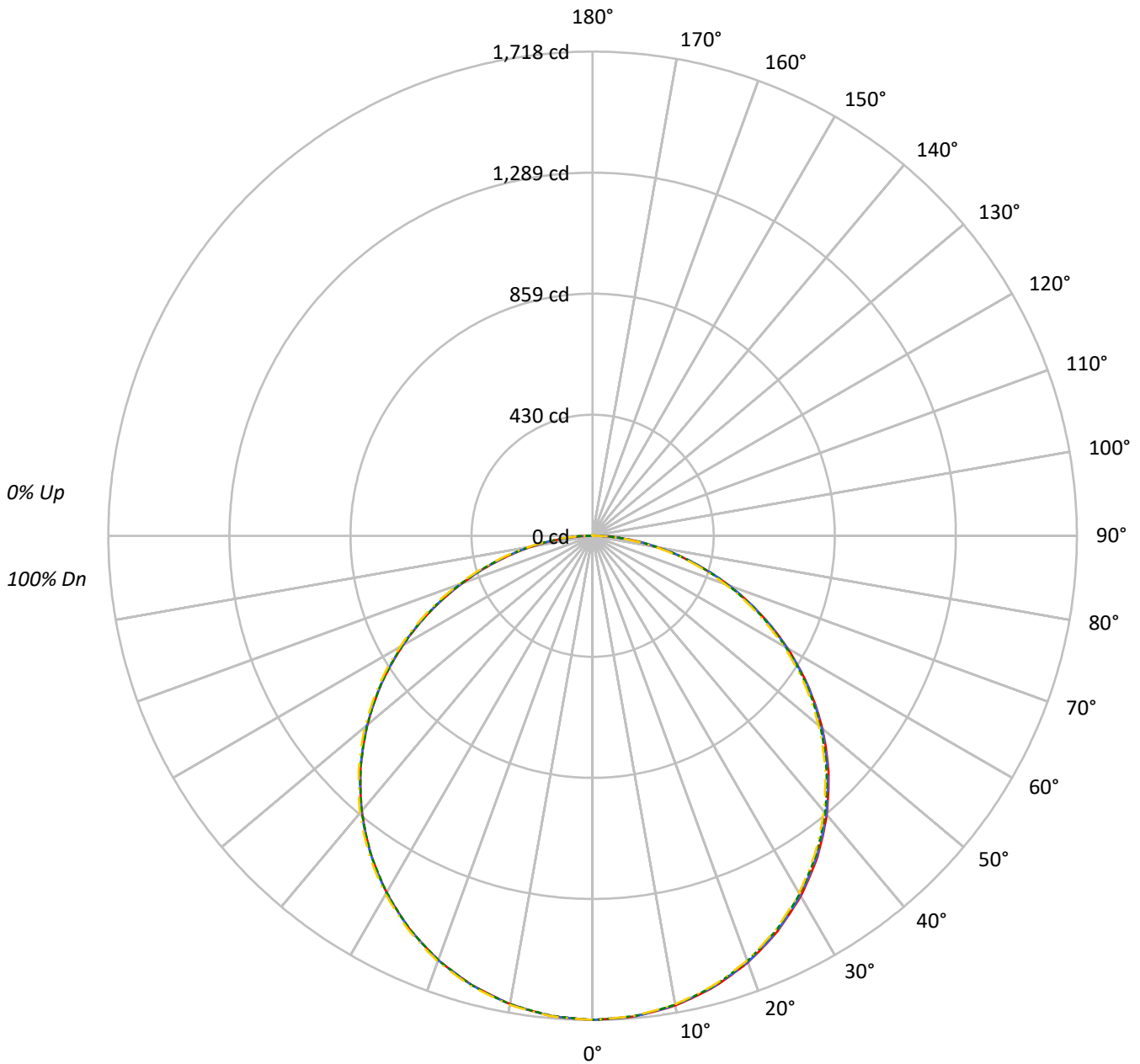
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 5081.0 lumens
Efficiency: 121.6%
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.7
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	145	145	145	145	141	141	141	141	135	135	135	129	129	129	124	124	124	121																			
1	132	126	120	115	128	123	118	114	118	114	110	113	110	106	108	106	103	101																			
2	119	109	101	93	116	107	99	92	102	96	90	98	93	88	95	90	86	83																			
3	109	96	85	77	106	94	84	77	90	82	75	87	80	74	83	78	73	70																			
4	99	85	74	65	97	83	73	65	80	71	64	77	69	63	74	68	62	59																			
5	91	75	64	56	89	74	64	56	71	62	55	69	61	54	67	60	54	51																			
6	84	68	57	49	82	67	56	49	64	55	48	62	54	48	60	53	47	45																			
7	78	61	51	43	76	60	50	43	59	49	43	57	48	42	55	48	42	39																			
8	73	56	46	38	71	55	45	38	53	44	38	52	44	38	50	43	37	35																			
9	68	51	41	34	66	51	41	34	49	40	34	48	40	34	47	39	34	31																			
10	64	47	38	31	62	47	37	31	45	37	31	44	36	31	43	36	31	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2311	2311	2311	2311
5°	2312	2310	2309	2308
10°	2312	2308	2305	2305
15°	2310	2306	2299	2301
20°	2307	2298	2294	2294
25°	2301	2291	2284	2283
30°	2293	2281	2271	2270
35°	2284	2270	2258	2257
40°	2269	2253	2237	2239
45°	2251	2233	2215	2215
50°	2226	2207	2182	2183
55°	2193	2176	2144	2146
60°	2149	2131	2091	2097
65°	2092	2074	2022	2032
70°	2020	2003	1934	1953
75°	1926	1918	1823	1856
80°	1798	1804	1667	1736
85°	1675	1601	1433	1564



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	162.6	3.2	3.9	0°	1718	1718	1718	1718	1718	
10°-20°	466.8	9.2	11.2	5°	1712	1710	1710	1709	1712	163
20°-30°	710.9	14.0	17.0	15°	1658	1655	1651	1652	1658	468
30°-40°	863.1	17.0	20.7	25°	1550	1543	1538	1538	1550	714
40°-50°	902.9	17.8	21.6	35°	1391	1382	1374	1374	1391	870
50°-60°	824.2	16.2	19.7	45°	1183	1173	1164	1164	1183	912
60°-70°	639.1	12.6	15.3	55°	935	928	914	915	935	835
70°-80°	383.7	7.6	9.2	65°	657	651	635	638	657	650
80°-90°	118.9	2.3	2.8	75°	370	369	351	357	370	392
90°-100°	2.9	0.1	0.1	85°	108	104	93	101	108	115
100°-110°	1.1	0.0	0.0	90°	8	7	3	11	8	17
110°-120°	1.0	0.0	0.0	95°	1	1	1	1	1	2
120°-130°	0.8	0.0	0.0	105°	1	1	2	1	1	1
130°-140°	0.7	0.0	0.0	115°	1	1	2	1	1	1
140°-150°	0.8	0.0	0.0	125°	1	1	1	1	1	1
150°-160°	0.8	0.0	0.0	135°	1	1	1	1	1	1
160°-170°	0.5	0.0	0.0	145°	1	2	1	2	1	1
170°-180°	0.2	0.0	0.0	155°	2	2	2	2	2	1
0°-30°	1340.3	26.4	32.1	165°	2	2	2	2	2	0
0°-40°	2203.4	43.4	52.7	175°	2	2	2	2	2	0
0°-60°	3930.5	77.4	94.0	180°	2	2	2	2	2	
0°-90°	5072.2	99.8	121.4							
90°-120°	4.9	0.1	0.1							
90°-150°	7.3	0.1	0.2							
90°-180°	9.0	0.2	0.2							
0°-180°	5081.0	100.0	121.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5
5°	1711.9	1711.1	1712.0	1709.7	1710.2	1710.6	1709.8	1708.8	1709.9	1708.7	1709.8
10°	1692.3	1691.3	1690.4	1689.3	1689.5	1689.9	1687.7	1686.5	1687.2	1686.5	1688.2
15°	1658.1	1656.8	1656.4	1654.3	1655.2	1654.7	1652.3	1650.1	1650.6	1650.3	1651.7
20°	1611.0	1611.3	1609.6	1606.0	1605.2	1603.5	1603.1	1600.5	1602.0	1601.0	1602.1
25°	1549.6	1549.9	1548.0	1544.0	1543.0	1542.3	1539.9	1538.1	1538.3	1537.3	1538.5
30°	1476.1	1474.7	1472.7	1469.3	1468.2	1466.7	1464.0	1461.7	1462.0	1461.6	1463.5
35°	1390.7	1388.6	1386.8	1383.3	1381.8	1377.7	1375.1	1373.8	1374.4	1373.5	1374.6
40°	1292.1	1290.1	1289.7	1283.7	1283.0	1278.8	1275.6	1273.8	1273.7	1273.8	1275.7
45°	1183.2	1181.5	1179.1	1174.7	1173.4	1169.6	1166.4	1163.5	1163.9	1163.3	1165.3
50°	1063.6	1062.6	1060.8	1056.1	1054.6	1050.1	1046.6	1043.6	1042.5	1042.9	1044.6
55°	934.9	934.6	932.7	927.3	927.7	922.0	917.5	914.3	914.1	914.1	915.1
60°	798.7	798.9	796.9	791.8	791.8	786.0	781.6	778.7	777.0	776.9	778.8
65°	657.0	658.1	656.9	651.9	651.4	645.9	640.9	636.7	635.2	634.7	637.8
70°	513.4	514.1	514.2	510.1	509.1	503.7	498.2	493.8	491.6	491.6	494.4
75°	370.4	371.2	372.6	369.2	368.9	363.6	358.5	353.6	350.6	351.6	354.8
80°	232.0	234.0	234.2	231.3	232.8	227.7	223.2	217.7	215.2	216.4	220.6
85°	108.5	108.8	105.4	101.7	103.7	99.8	96.1	94.1	92.8	93.4	97.1
90°	7.6	6.9	5.8	4.8	7.4	6.4	5.2	3.8	3.0	4.3	7.2
95°	1.4	1.5	1.0	0.9	0.7	0.7	0.8	1.3	1.2	1.2	0.8
100°	1.4	1.3	0.9	0.8	0.7	0.7	0.8	1.4	1.5	1.3	0.8
105°	1.3	1.1	0.9	0.7	0.7	0.8	1.0	1.6	1.5	1.7	0.8
110°	1.1	0.9	0.9	0.7	0.8	0.8	1.2	1.6	1.5	1.6	1.2
115°	0.9	0.7	0.9	0.7	0.8	0.9	1.5	1.4	1.5	1.6	1.4
120°	0.7	0.5	0.9	0.7	0.8	1.0	1.6	0.7	1.5	1.0	1.5
125°	0.7	0.5	0.9	0.7	0.9	1.0	1.6	0.7	0.8	0.8	1.6
130°	0.7	0.5	0.9	0.7	1.0	1.2	1.6	0.7	0.8	0.8	1.6
135°	0.7	0.5	0.9	0.7	1.1	1.3	1.6	0.8	0.8	0.8	1.6
140°	0.7	0.6	0.9	0.7	1.3	1.5	1.7	0.9	0.9	1.0	1.6
145°	1.3	1.1	0.9	1.4	1.5	1.7	1.7	1.2	1.2	1.1	1.6
150°	1.5	1.6	1.5	1.7	1.8	1.9	2.0	1.5	1.5	1.3	1.6
155°	1.5	1.6	1.6	1.7	2.0	2.1	2.2	1.7	1.8	1.8	1.6
160°	1.7	1.6	1.6	1.7	2.3	2.2	2.4	1.9	1.8	1.8	1.8
165°	1.6	1.6	1.6	1.7	2.4	2.4	2.5	1.9	1.8	1.8	1.8
170°	1.8	1.7	1.7	1.8	2.5	2.4	2.7	1.9	1.8	1.8	1.7
175°	1.8	1.7	2.1	2.1	2.5	2.4	2.7	1.9	1.8	1.8	1.7
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1717.5	1717.5	1717.5	1717.5	1717.5	1717.5
5°	1709.3	1708.7	1711.0	1710.7	1710.1	1711.9
10°	1687.5	1687.4	1689.0	1690.3	1690.8	1692.3
15°	1650.9	1651.6	1653.3	1655.4	1656.7	1658.1
20°	1601.1	1602.0	1604.5	1607.1	1608.1	1611.0
25°	1537.4	1537.9	1541.1	1544.0	1547.5	1549.6
30°	1462.5	1461.4	1466.2	1469.0	1473.7	1476.1
35°	1374.4	1373.8	1377.6	1382.1	1387.9	1390.7
40°	1274.9	1274.5	1278.7	1284.0	1289.3	1292.1
45°	1164.7	1163.9	1168.4	1173.4	1179.3	1183.2
50°	1044.5	1043.1	1048.5	1054.3	1060.1	1063.6
55°	915.9	914.8	919.2	925.9	930.3	934.9
60°	780.1	779.1	783.9	790.1	794.2	798.7
65°	639.0	638.4	644.2	649.7	654.0	657.0
70°	497.3	496.4	502.3	507.6	510.3	513.4
75°	358.4	357.0	361.6	366.1	368.2	370.4
80°	225.6	224.0	228.3	230.4	231.1	232.0
85°	102.2	101.3	104.6	106.6	107.3	108.5
90°	10.6	11.4	12.6	11.6	9.5	7.6
95°	0.7	1.0	0.9	1.0	1.4	1.4
100°	0.7	0.8	0.8	0.9	1.3	1.4
105°	0.7	0.7	0.8	0.9	1.2	1.3
110°	0.8	0.7	0.7	0.9	0.9	1.1
115°	0.9	0.7	0.7	0.9	0.8	0.9
120°	1.0	0.7	0.7	0.9	0.6	0.7
125°	1.0	0.7	0.7	0.9	0.6	0.7
130°	1.1	0.7	0.7	0.9	0.6	0.7
135°	1.2	0.7	0.7	0.9	0.6	0.7
140°	1.4	0.8	0.8	0.9	0.6	0.7
145°	1.6	1.5	1.3	0.9	1.1	1.3
150°	1.8	1.5	1.6	1.7	1.5	1.5
155°	2.0	1.5	1.6	1.6	1.5	1.5
160°	2.0	1.6	1.7	1.7	1.5	1.7
165°	2.0	1.6	1.7	1.7	1.5	1.6
170°	2.0	1.8	1.8	1.7	1.8	1.8
175°	2.0	2.2	2.3	1.9	1.9	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)