

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: P568420

Luminaire Tested: **24CGTX-100HE-L830**

Issue Date: 9/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P568420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-100HE-L830  
Description: 2X4 1000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

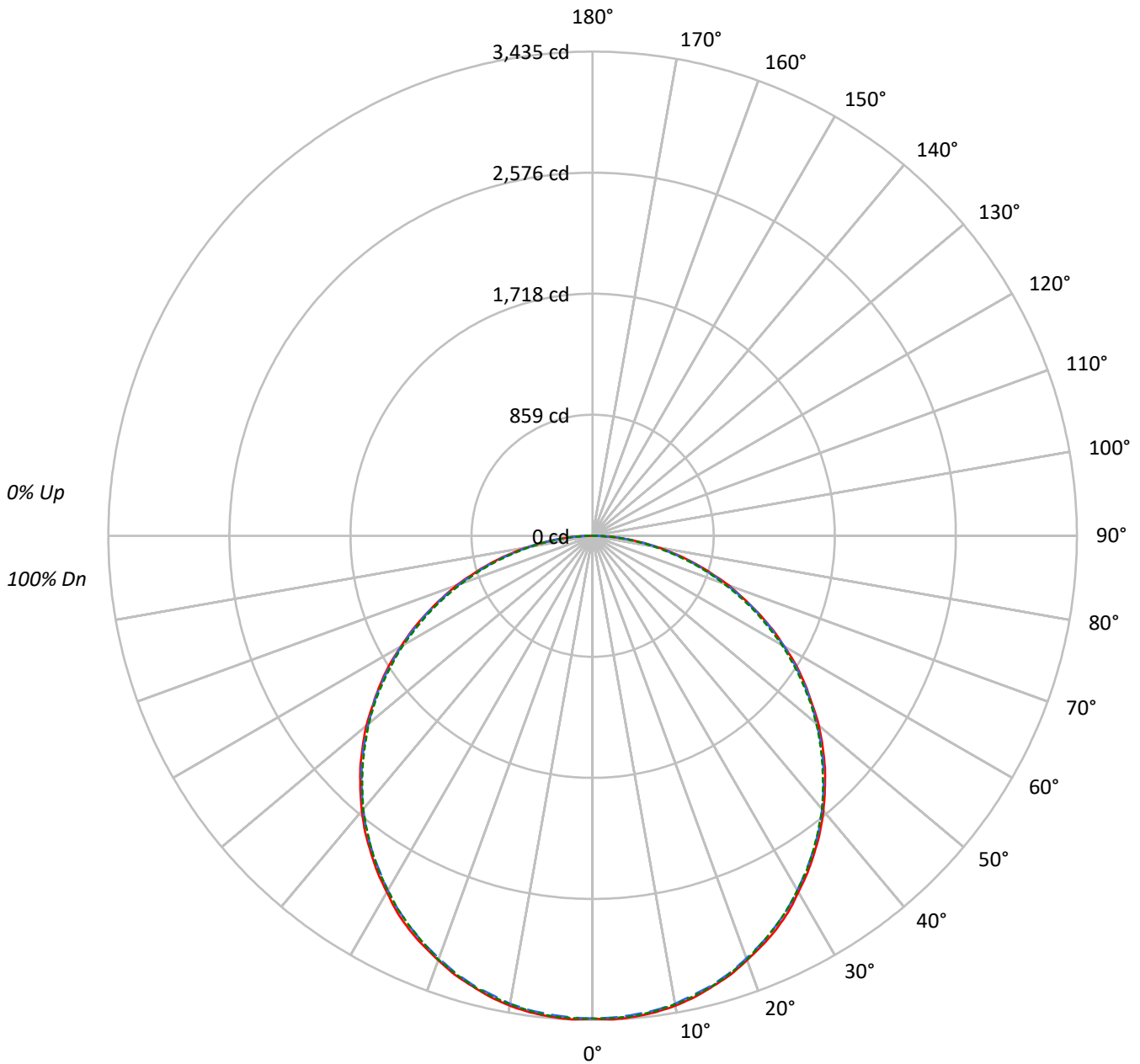
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10064.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: 24CGTX-100HE-L830

### 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4608	4608	4608
5°	4626	4606	4619
10°	4626	4605	4612
15°	4607	4593	4600
20°	4588	4567	4581
25°	4575	4545	4545
30°	4536	4513	4513
35°	4505	4481	4481
40°	4473	4447	4447
45°	4435	4407	4388
50°	4386	4344	4334
55°	4316	4293	4259
60°	4225	4212	4172
65°	4124	4109	4046
70°	4034	3957	3880
75°	3877	3775	3699
80°	3649	3574	3422
85°	3333	3257	3106



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.6	3.2
10°-20°	930.5	9.2
20°-30°	1412.2	14.0
30°-40°	1708.7	17.0
40°-50°	1785.0	17.7
50°-60°	1632.8	16.2
60°-70°	1270.9	12.6
70°-80°	766.0	7.6
80°-90°	233.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2667.3	26.5
0°-40°	4375.9	43.5
0°-60°	7793.7	77.4
0°-90°	10064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3425	3425	3425	3425	3425	
5°	3425	3415	3410	3410	3420	326
15°	3307	3297	3297	3292	3302	934
25°	3081	3067	3062	3057	3062	1419
35°	2743	2733	2728	2728	2728	1717
45°	2331	2316	2316	2306	2306	1796
55°	1840	1835	1830	1816	1816	1644
65°	1295	1295	1290	1271	1271	1284
75°	746	736	726	712	712	785
85°	216	211	211	201	201	240
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3424.9	3424.9	3424.9	3424.9	3424.9
2.5°	3434.7	3424.9	3420.0	3420.0	3424.9
5°	3424.9	3415.1	3410.2	3410.2	3420.0
7.5°	3410.2	3395.5	3395.5	3390.5	3400.4
10°	3385.6	3370.9	3370.9	3366.0	3375.8
12.5°	3351.3	3336.6	3331.7	3331.7	3341.5
15°	3307.1	3297.3	3297.3	3292.4	3302.2
17.5°	3263.0	3248.2	3248.2	3243.3	3253.2
20°	3204.1	3194.3	3189.4	3189.4	3199.2
22.5°	3145.2	3135.4	3130.5	3130.5	3130.5
25°	3081.4	3066.7	3061.8	3056.9	3061.8
27.5°	3007.8	2988.2	2988.2	2983.3	2988.2
30°	2919.5	2909.7	2904.8	2899.9	2904.8
32.5°	2836.1	2821.4	2816.5	2821.4	2821.4
35°	2742.9	2733.0	2728.1	2728.1	2728.1
37.5°	2649.6	2634.9	2634.9	2630.0	2630.0
40°	2546.6	2536.8	2531.9	2531.9	2531.9
42.5°	2438.6	2428.8	2423.9	2419.0	2419.0
45°	2330.7	2316.0	2316.0	2306.2	2306.2
47.5°	2212.9	2203.1	2198.2	2188.4	2188.4
50°	2095.2	2085.4	2075.5	2075.5	2070.6
52.5°	1962.7	1962.7	1957.8	1948.0	1948.0
55°	1840.0	1835.1	1830.2	1815.5	1815.5
57.5°	1712.4	1707.5	1697.7	1683.0	1683.0
60°	1570.2	1570.2	1565.2	1545.6	1550.5
62.5°	1437.7	1432.8	1427.9	1413.1	1408.2
65°	1295.4	1295.4	1290.5	1270.8	1270.8
67.5°	1158.0	1158.0	1148.2	1128.5	1128.5
70°	1025.5	1010.8	1005.9	991.2	986.3
72.5°	878.3	873.4	863.6	848.9	848.9
75°	745.8	736.0	726.2	711.5	711.5
77.5°	603.5	593.7	583.9	579.0	569.2
80°	471.0	466.1	461.2	446.5	441.6
82.5°	338.6	333.7	328.8	323.8	318.9
85°	215.9	211.0	211.0	201.2	201.2
87.5°	93.2	98.1	88.3	93.2	88.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)