

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: P568464

Luminaire Tested: **24CGTX-100HE-L840**

Issue Date: 9/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P568464  
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-L840  
Description: 2X4 1000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

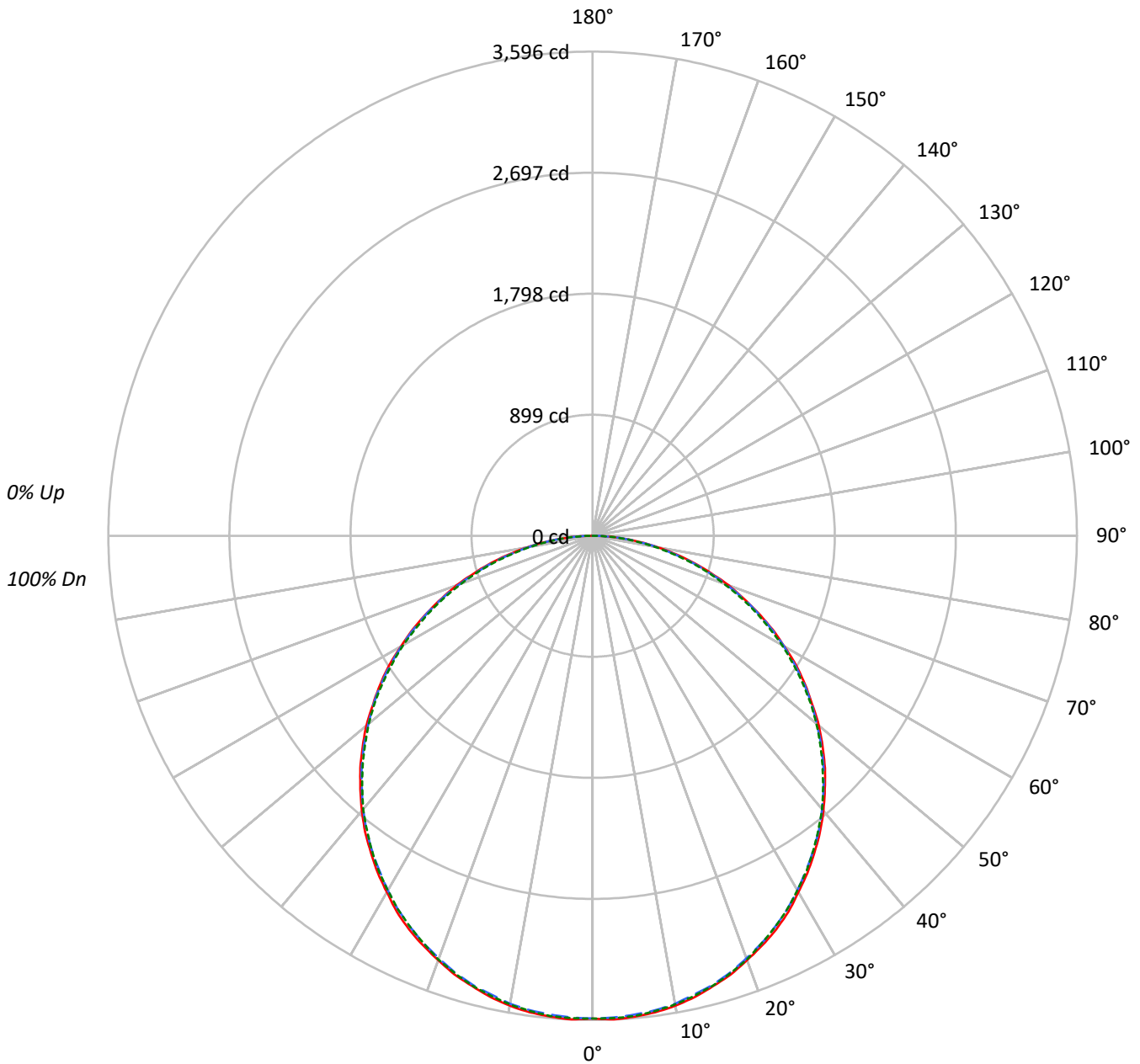
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10536.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 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-L840

### 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	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°	4824	4824	4824
5°	4843	4822	4836
10°	4843	4821	4828
15°	4823	4808	4816
20°	4803	4781	4796
25°	4789	4759	4759
30°	4749	4725	4725
35°	4717	4691	4691
40°	4683	4656	4656
45°	4643	4614	4594
50°	4591	4548	4537
55°	4519	4495	4458
60°	4423	4410	4368
65°	4317	4301	4236
70°	4223	4143	4062
75°	4059	3952	3872
80°	3821	3742	3582
85°	3489	3410	3251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.8	3.2
10°-20°	974.2	9.2
20°-30°	1478.4	14.0
30°-40°	1788.8	17.0
40°-50°	1868.7	17.7
50°-60°	1709.4	16.2
60°-70°	1330.5	12.6
70°-80°	801.9	7.6
80°-90°	244.4	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°	2792.4	26.5
0°-40°	4581.2	43.5
0°-60°	8159.2	77.4
0°-90°	10536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10536.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3586	3586	3586	3586	3586	
5°	3586	3575	3570	3570	3580	341
15°	3462	3452	3452	3447	3457	978
25°	3226	3210	3205	3200	3205	1486
35°	2872	2861	2856	2856	2856	1797
45°	2440	2425	2425	2414	2414	1881
55°	1926	1921	1916	1901	1901	1721
65°	1356	1356	1351	1330	1330	1344
75°	781	770	760	745	745	822
85°	226	221	221	211	211	252
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3585.5	3585.5	3585.5	3585.5	3585.5
2.5°	3595.8	3585.5	3580.4	3580.4	3585.5
5°	3585.5	3575.2	3570.1	3570.1	3580.4
7.5°	3570.1	3554.7	3554.7	3549.6	3559.8
10°	3544.4	3529.0	3529.0	3523.9	3534.1
12.5°	3508.5	3493.1	3487.9	3487.9	3498.2
15°	3462.2	3452.0	3452.0	3446.8	3457.1
17.5°	3416.0	3400.6	3400.6	3395.5	3405.7
20°	3354.4	3344.1	3338.9	3338.9	3349.2
22.5°	3292.7	3282.4	3277.3	3277.3	3277.3
25°	3225.9	3210.5	3205.4	3200.3	3205.4
27.5°	3148.9	3128.3	3128.3	3123.2	3128.3
30°	3056.4	3046.1	3041.0	3035.9	3041.0
32.5°	2969.1	2953.7	2948.5	2953.7	2953.7
35°	2871.5	2861.2	2856.1	2856.1	2856.1
37.5°	2773.9	2758.5	2758.5	2753.3	2753.3
40°	2666.0	2655.7	2650.6	2650.6	2650.6
42.5°	2553.0	2542.7	2537.6	2532.5	2532.5
45°	2440.0	2424.6	2424.6	2414.3	2414.3
47.5°	2316.7	2306.4	2301.3	2291.0	2291.0
50°	2193.4	2183.2	2172.9	2172.9	2167.7
52.5°	2054.7	2054.7	2049.6	2039.3	2039.3
55°	1926.3	1921.2	1916.0	1900.6	1900.6
57.5°	1792.8	1787.6	1777.3	1761.9	1761.9
60°	1643.8	1643.8	1638.7	1618.1	1623.2
62.5°	1505.1	1500.0	1494.8	1479.4	1474.3
65°	1356.1	1356.1	1351.0	1330.4	1330.4
67.5°	1212.3	1212.3	1202.0	1181.5	1181.5
70°	1073.6	1058.2	1053.1	1037.6	1032.5
72.5°	919.5	914.4	904.1	888.7	888.7
75°	780.8	770.5	760.3	744.8	744.8
77.5°	631.8	621.6	611.3	606.1	595.9
80°	493.1	488.0	482.9	467.5	462.3
82.5°	354.4	349.3	344.2	339.0	333.9
85°	226.0	220.9	220.9	210.6	210.6
87.5°	97.6	102.7	92.5	97.6	92.5
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)