

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: P568485

Luminaire Tested: **24CGTX-90HE-L940**

Issue Date: 9/19/2022

**Test Information**

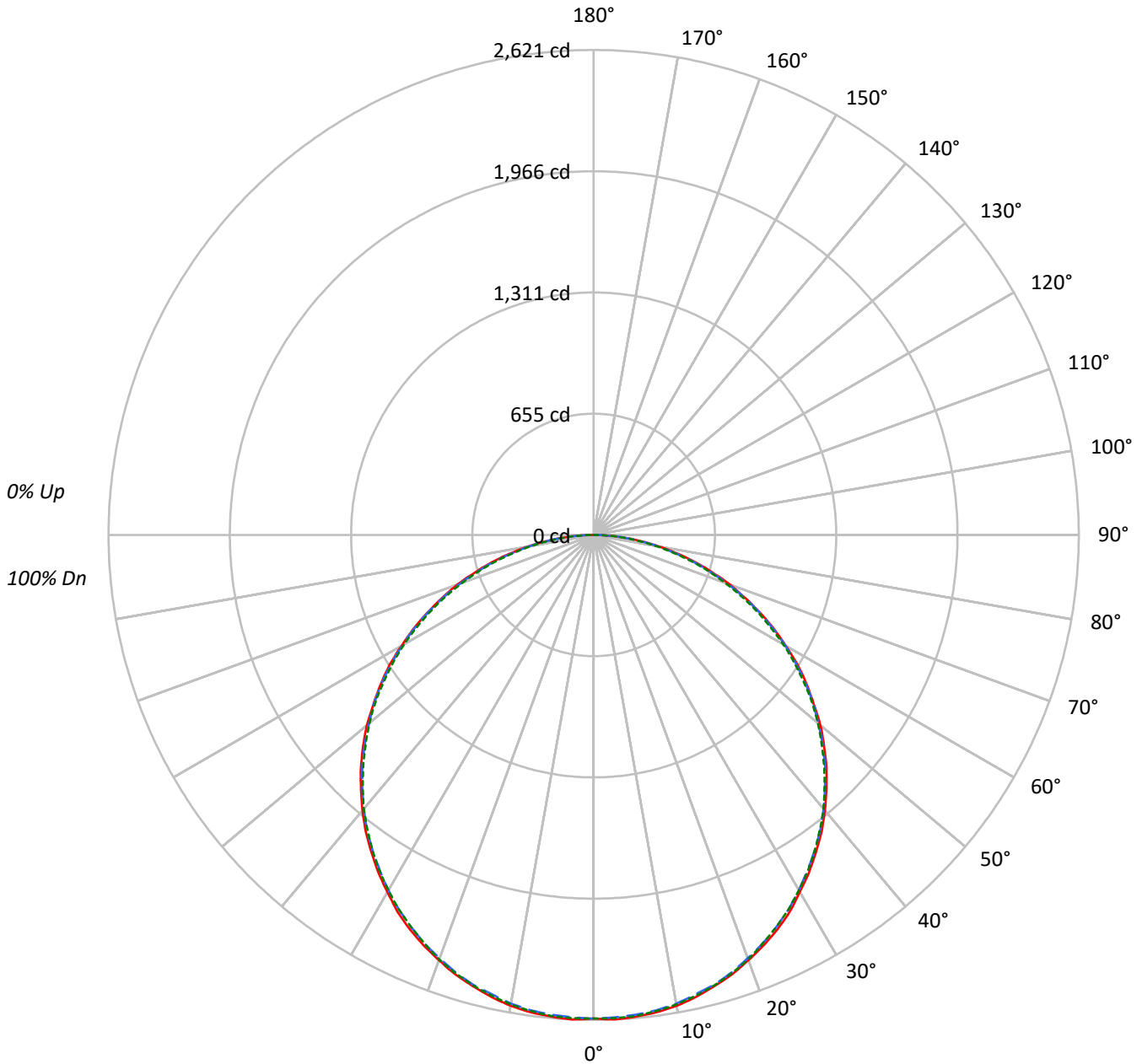
Test Method: LM-79-08  
Report Number: P568485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-90HE-L940  
Description: 2X4 9000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 90CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7681.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 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): 73.8  
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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### 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°	3517	3517	3517
5°	3530	3515	3525
10°	3530	3515	3520
15°	3516	3506	3511
20°	3501	3485	3496
25°	3491	3469	3469
30°	3462	3444	3444
35°	3438	3420	3420
40°	3414	3394	3394
45°	3385	3363	3349
50°	3347	3316	3308
55°	3294	3277	3250
60°	3225	3215	3185
65°	3147	3136	3088
70°	3079	3020	2961
75°	2959	2881	2823
80°	2786	2727	2611
85°	2544	2485	2370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.7	3.2
10°-20°	710.2	9.2
20°-30°	1077.8	14.0
30°-40°	1304.1	17.0
40°-50°	1362.3	17.7
50°-60°	1246.2	16.2
60°-70°	969.9	12.6
70°-80°	584.6	7.6
80°-90°	178.2	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°	2035.7	26.5
0°-40°	3339.8	43.5
0°-60°	5948.3	77.4
0°-90°	7681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2614	2606	2603	2603	2610	249
15°	2524	2517	2517	2513	2520	713
25°	2352	2341	2337	2333	2337	1083
35°	2093	2086	2082	2082	2082	1310
45°	1779	1768	1768	1760	1760	1371
55°	1404	1401	1397	1386	1386	1254
65°	989	989	985	970	970	980
75°	569	562	554	543	543	599
85°	165	161	161	154	154	183
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2613.9	2613.9	2613.9	2613.9	2613.9
2.5°	2621.4	2613.9	2610.2	2610.2	2613.9
5°	2613.9	2606.4	2602.7	2602.7	2610.2
7.5°	2602.7	2591.5	2591.5	2587.7	2595.2
10°	2584.0	2572.7	2572.7	2569.0	2576.5
12.5°	2557.8	2546.5	2542.8	2542.8	2550.3
15°	2524.1	2516.6	2516.6	2512.8	2520.3
17.5°	2490.3	2479.1	2479.1	2475.4	2482.9
20°	2445.4	2437.9	2434.2	2434.2	2441.7
22.5°	2400.5	2393.0	2389.2	2389.2	2389.2
25°	2351.8	2340.6	2336.8	2333.1	2336.8
27.5°	2295.6	2280.6	2280.6	2276.9	2280.6
30°	2228.2	2220.7	2217.0	2213.2	2217.0
32.5°	2164.5	2153.3	2149.6	2153.3	2153.3
35°	2093.4	2085.9	2082.2	2082.2	2082.2
37.5°	2022.2	2011.0	2011.0	2007.3	2007.3
40°	1943.6	1936.1	1932.4	1932.4	1932.4
42.5°	1861.2	1853.7	1850.0	1846.2	1846.2
45°	1778.8	1767.6	1767.6	1760.1	1760.1
47.5°	1688.9	1681.5	1677.7	1670.2	1670.2
50°	1599.1	1591.6	1584.1	1584.1	1580.3
52.5°	1498.0	1498.0	1494.2	1486.7	1486.7
55°	1404.3	1400.6	1396.8	1385.6	1385.6
57.5°	1307.0	1303.2	1295.7	1284.5	1284.5
60°	1198.4	1198.4	1194.6	1179.6	1183.4
62.5°	1097.3	1093.5	1089.8	1078.5	1074.8
65°	988.6	988.6	984.9	969.9	969.9
67.5°	883.8	883.8	876.3	861.3	861.3
70°	782.7	771.4	767.7	756.5	752.7
72.5°	670.3	666.6	659.1	647.9	647.9
75°	569.2	561.7	554.2	543.0	543.0
77.5°	460.6	453.1	445.6	441.9	434.4
80°	359.5	355.8	352.0	340.8	337.0
82.5°	258.4	254.7	250.9	247.2	243.4
85°	164.8	161.0	161.0	153.5	153.5
87.5°	71.2	74.9	67.4	71.2	67.4
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)