

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: P568494

Luminaire Tested: **24CGTX-72HE-L850**

Issue Date: 9/19/2022

**Test Information**

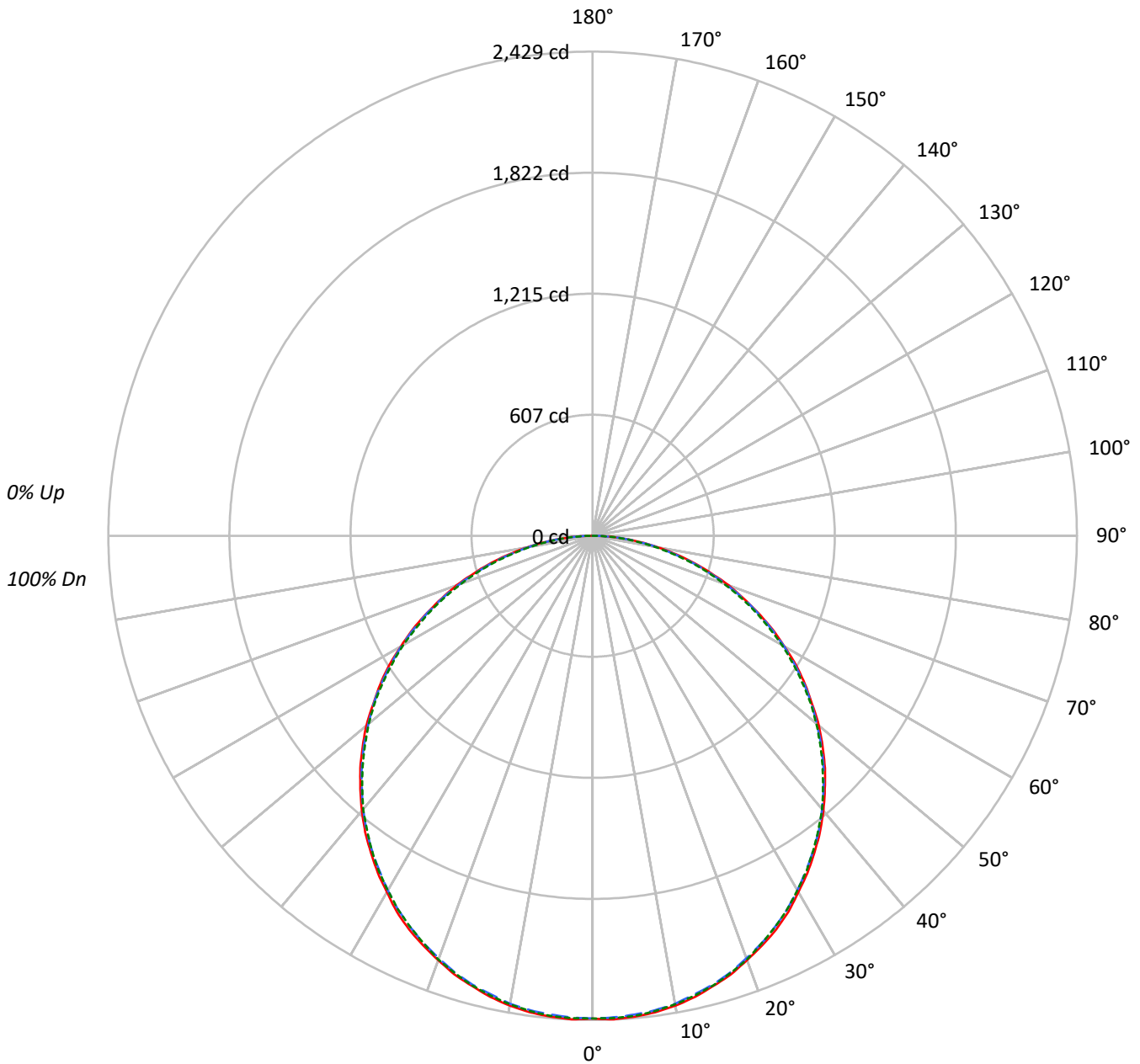
Test Method: LM-79-08  
Report Number: P568494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-72HE-L850  
Description: 2X4 7200 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7116.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 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): 57.6  
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				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°	3258	3258	3258
5°	3271	3257	3266
10°	3271	3256	3261
15°	3257	3248	3252
20°	3244	3229	3239
25°	3235	3214	3214
30°	3207	3191	3191
35°	3186	3168	3168
40°	3163	3144	3144
45°	3136	3116	3103
50°	3101	3072	3065
55°	3052	3036	3011
60°	2988	2978	2950
65°	2916	2905	2861
70°	2853	2798	2744
75°	2742	2669	2615
80°	2581	2527	2419
85°	2357	2303	2195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.5	3.2
10°-20°	658.0	9.2
20°-30°	998.5	14.0
30°-40°	1208.2	17.0
40°-50°	1262.1	17.7
50°-60°	1154.5	16.2
60°-70°	898.6	12.6
70°-80°	541.6	7.6
80°-90°	165.1	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°	1886.0	26.5
0°-40°	3094.1	43.5
0°-60°	5510.8	77.4
0°-90°	7116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2422	2422	2422	2422	2422	
5°	2422	2415	2411	2411	2418	230
15°	2338	2331	2331	2328	2335	660
25°	2179	2168	2165	2161	2165	1003
35°	1939	1932	1929	1929	1929	1214
45°	1648	1638	1638	1631	1631	1270
55°	1301	1298	1294	1284	1284	1162
65°	916	916	912	899	899	908
75°	527	520	514	503	503	555
85°	153	149	149	142	142	170
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2421.7	2421.7	2421.7	2421.7	2421.7
2.5°	2428.6	2421.7	2418.2	2418.2	2421.7
5°	2421.7	2414.7	2411.2	2411.2	2418.2
7.5°	2411.2	2400.8	2400.8	2397.4	2404.3
10°	2393.9	2383.5	2383.5	2380.0	2387.0
12.5°	2369.6	2359.2	2355.7	2355.7	2362.7
15°	2338.4	2331.4	2331.4	2328.0	2334.9
17.5°	2307.2	2296.8	2296.8	2293.3	2300.2
20°	2265.5	2258.6	2255.1	2255.1	2262.1
22.5°	2223.9	2217.0	2213.5	2213.5	2213.5
25°	2178.8	2168.4	2164.9	2161.4	2164.9
27.5°	2126.8	2112.9	2112.9	2109.4	2112.9
30°	2064.3	2057.4	2053.9	2050.4	2053.9
32.5°	2005.3	1994.9	1991.4	1994.9	1994.9
35°	1939.4	1932.5	1929.0	1929.0	1929.0
37.5°	1873.5	1863.1	1863.1	1859.6	1859.6
40°	1800.6	1793.7	1790.2	1790.2	1790.2
42.5°	1724.3	1717.4	1713.9	1710.4	1710.4
45°	1648.0	1637.6	1637.6	1630.6	1630.6
47.5°	1564.7	1557.8	1554.3	1547.4	1547.4
50°	1481.4	1474.5	1467.6	1467.6	1464.1
52.5°	1387.8	1387.8	1384.3	1377.4	1377.4
55°	1301.0	1297.6	1294.1	1283.7	1283.7
57.5°	1210.8	1207.4	1200.4	1190.0	1190.0
60°	1110.2	1110.2	1106.7	1092.9	1096.3
62.5°	1016.5	1013.1	1009.6	999.2	995.7
65°	915.9	915.9	912.5	898.6	898.6
67.5°	818.8	818.8	811.8	798.0	798.0
70°	725.1	714.7	711.2	700.8	697.4
72.5°	621.0	617.6	610.6	600.2	600.2
75°	527.4	520.4	513.5	503.1	503.1
77.5°	426.7	419.8	412.9	409.4	402.5
80°	333.1	329.6	326.1	315.7	312.2
82.5°	239.4	235.9	232.5	229.0	225.5
85°	152.7	149.2	149.2	142.2	142.2
87.5°	65.9	69.4	62.4	65.9	62.4
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)