

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: P568577

Luminaire Tested: **24CGTX-80-L850**

Issue Date: 9/19/2022

**Test Information**

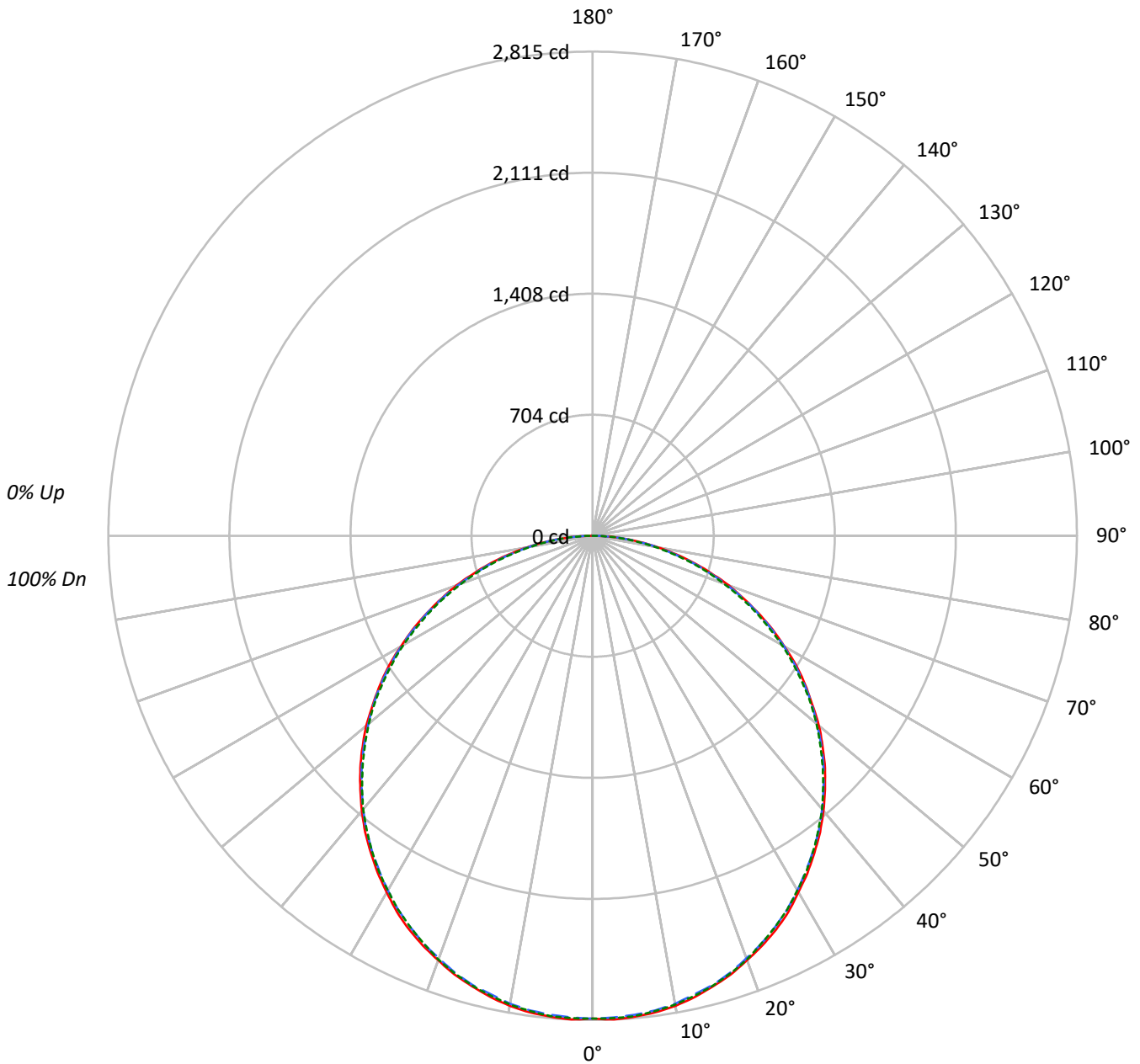
Test Method: LM-79-08  
Report Number: P568577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-80-L850  
Description: 2X4 8000 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8249.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 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): 67.6  
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									
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°	3777	3777	3777
5°	3791	3775	3786
10°	3791	3775	3780
15°	3776	3765	3770
20°	3760	3743	3755
25°	3750	3726	3726
30°	3718	3699	3699
35°	3693	3673	3673
40°	3666	3645	3645
45°	3635	3612	3597
50°	3595	3561	3553
55°	3538	3519	3491
60°	3463	3453	3420
65°	3380	3367	3316
70°	3307	3244	3180
75°	3178	3094	3032
80°	2992	2930	2805
85°	2732	2669	2546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.0	3.2
10°-20°	762.7	9.2
20°-30°	1157.5	14.0
30°-40°	1400.5	17.0
40°-50°	1463.1	17.7
50°-60°	1338.3	16.2
60°-70°	1041.7	12.6
70°-80°	627.8	7.6
80°-90°	191.3	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°	2186.2	26.5
0°-40°	3586.8	43.5
0°-60°	6388.2	77.4
0°-90°	8249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2807	2807	2807	2807	2807	
5°	2807	2799	2795	2795	2803	267
15°	2711	2703	2703	2699	2707	766
25°	2526	2514	2510	2506	2510	1163
35°	2248	2240	2236	2236	2236	1407
45°	1910	1898	1898	1890	1890	1472
55°	1508	1504	1500	1488	1488	1347
65°	1062	1062	1058	1042	1042	1053
75°	611	603	595	583	583	643
85°	177	173	173	165	165	197
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2807.2	2807.2	2807.2	2807.2	2807.2
2.5°	2815.3	2807.2	2803.2	2803.2	2807.2
5°	2807.2	2799.2	2795.2	2795.2	2803.2
7.5°	2795.2	2783.1	2783.1	2779.1	2787.1
10°	2775.1	2763.0	2763.0	2759.0	2767.0
12.5°	2746.9	2734.8	2730.8	2730.8	2738.9
15°	2710.7	2702.7	2702.7	2698.6	2706.7
17.5°	2674.5	2662.4	2662.4	2658.4	2666.5
20°	2626.2	2618.2	2614.2	2614.2	2622.2
22.5°	2578.0	2569.9	2565.9	2565.9	2565.9
25°	2525.7	2513.6	2509.6	2505.6	2509.6
27.5°	2465.4	2449.3	2449.3	2445.3	2449.3
30°	2393.0	2384.9	2380.9	2376.9	2380.9
32.5°	2324.6	2312.5	2308.5	2312.5	2312.5
35°	2248.2	2240.2	2236.1	2236.1	2236.1
37.5°	2171.8	2159.7	2159.7	2155.7	2155.7
40°	2087.3	2079.3	2075.3	2075.3	2075.3
42.5°	1998.8	1990.8	1986.8	1982.8	1982.8
45°	1910.4	1898.3	1898.3	1890.3	1890.3
47.5°	1813.8	1805.8	1801.8	1793.7	1793.7
50°	1717.3	1709.3	1701.2	1701.2	1697.2
52.5°	1608.7	1608.7	1604.7	1596.7	1596.7
55°	1508.2	1504.2	1500.1	1488.1	1488.1
57.5°	1403.6	1399.6	1391.5	1379.5	1379.5
60°	1287.0	1287.0	1283.0	1266.9	1270.9
62.5°	1178.4	1174.4	1170.3	1158.3	1154.3
65°	1061.8	1061.8	1057.7	1041.6	1041.6
67.5°	949.1	949.1	941.1	925.0	925.0
70°	840.6	828.5	824.5	812.4	808.4
72.5°	719.9	715.9	707.8	695.8	695.8
75°	611.3	603.3	595.2	583.2	583.2
77.5°	494.7	486.6	478.6	474.6	466.5
80°	386.1	382.1	378.1	366.0	362.0
82.5°	277.5	273.5	269.5	265.4	261.4
85°	177.0	172.9	172.9	164.9	164.9
87.5°	76.4	80.4	72.4	76.4	72.4
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)