

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: P568517

Luminaire Tested: **24CGTX-80-L830**

Issue Date: 9/19/2022



**Test Information**

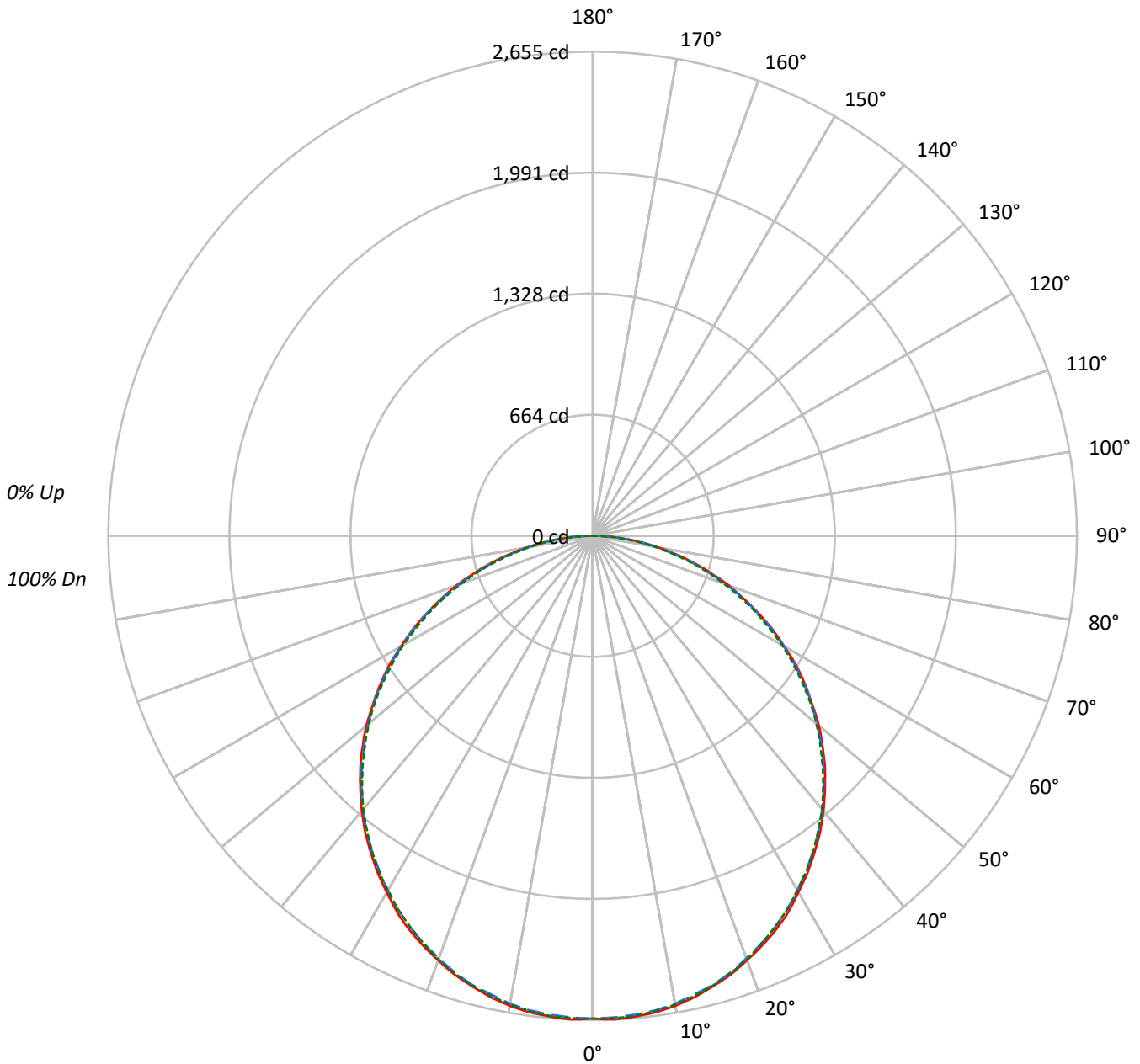
Test Method: LM-79-08  
Report Number: P568517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-80-L830  
Description: 2X4 8000 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7780.0 lumens  
Efficiency: N/A  
Efficacy: 115.1 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): 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°	3562	3562	3562
5°	3576	3561	3571
10°	3576	3560	3565
15°	3561	3551	3556
20°	3547	3530	3541
25°	3536	3514	3514
30°	3506	3489	3489
35°	3483	3464	3464
40°	3458	3438	3438
45°	3428	3407	3392
50°	3390	3359	3351
55°	3337	3319	3292
60°	3266	3256	3225
65°	3188	3176	3128
70°	3119	3059	2999
75°	2997	2918	2859
80°	2821	2763	2645
85°	2577	2518	2401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	3.2
10°-20°	719.4	9.2
20°-30°	1091.7	14.0
30°-40°	1320.9	17.0
40°-50°	1379.9	17.7
50°-60°	1262.2	16.2
60°-70°	982.4	12.6
70°-80°	592.1	7.6
80°-90°	180.5	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°	2061.9	26.5
0°-40°	3382.8	43.5
0°-60°	6024.9	77.4
0°-90°	7780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2648	2648	2648	2648	2648	
5°	2648	2640	2636	2636	2644	252
15°	2557	2549	2549	2545	2553	722
25°	2382	2371	2367	2363	2367	1097
35°	2120	2113	2109	2109	2109	1327
45°	1802	1790	1790	1783	1783	1389
55°	1422	1419	1415	1404	1404	1271
65°	1001	1001	998	982	982	993
75°	577	569	561	550	550	607
85°	167	163	163	156	156	186
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2647.6	2647.6	2647.6	2647.6	2647.6
2.5°	2655.2	2647.6	2643.8	2643.8	2647.6
5°	2647.6	2640.0	2636.2	2636.2	2643.8
7.5°	2636.2	2624.9	2624.9	2621.1	2628.7
10°	2617.3	2605.9	2605.9	2602.1	2609.7
12.5°	2590.7	2579.3	2575.6	2575.6	2583.1
15°	2556.6	2549.0	2549.0	2545.2	2552.8
17.5°	2522.4	2511.1	2511.1	2507.3	2514.9
20°	2476.9	2469.3	2465.5	2465.5	2473.1
22.5°	2431.4	2423.8	2420.0	2420.0	2420.0
25°	2382.1	2370.7	2366.9	2363.1	2366.9
27.5°	2325.2	2310.0	2310.0	2306.2	2310.0
30°	2256.9	2249.3	2245.5	2241.8	2245.5
32.5°	2192.4	2181.1	2177.3	2181.1	2181.1
35°	2120.4	2112.8	2109.0	2109.0	2109.0
37.5°	2048.3	2036.9	2036.9	2033.1	2033.1
40°	1968.6	1961.1	1957.3	1957.3	1957.3
42.5°	1885.2	1877.6	1873.8	1870.0	1870.0
45°	1801.7	1790.4	1790.4	1782.8	1782.8
47.5°	1710.7	1703.1	1699.3	1691.7	1691.7
50°	1619.7	1612.1	1604.5	1604.5	1600.7
52.5°	1517.3	1517.3	1513.5	1505.9	1505.9
55°	1422.4	1418.6	1414.8	1403.5	1403.5
57.5°	1323.8	1320.0	1312.4	1301.1	1301.1
60°	1213.8	1213.8	1210.0	1194.8	1198.6
62.5°	1111.4	1107.6	1103.8	1092.4	1088.6
65°	1001.4	1001.4	997.6	982.4	982.4
67.5°	895.2	895.2	887.6	872.4	872.4
70°	792.8	781.4	777.6	766.2	762.4
72.5°	679.0	675.2	667.6	656.2	656.2
75°	576.6	569.0	561.4	550.0	550.0
77.5°	466.6	459.0	451.4	447.6	440.0
80°	364.1	360.3	356.6	345.2	341.4
82.5°	261.7	257.9	254.1	250.3	246.6
85°	166.9	163.1	163.1	155.5	155.5
87.5°	72.1	75.9	68.3	72.1	68.3
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)