

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: P568452

Luminaire Tested: **24CGTX-90HE-L835**

Issue Date: 9/19/2022

**Test Information**

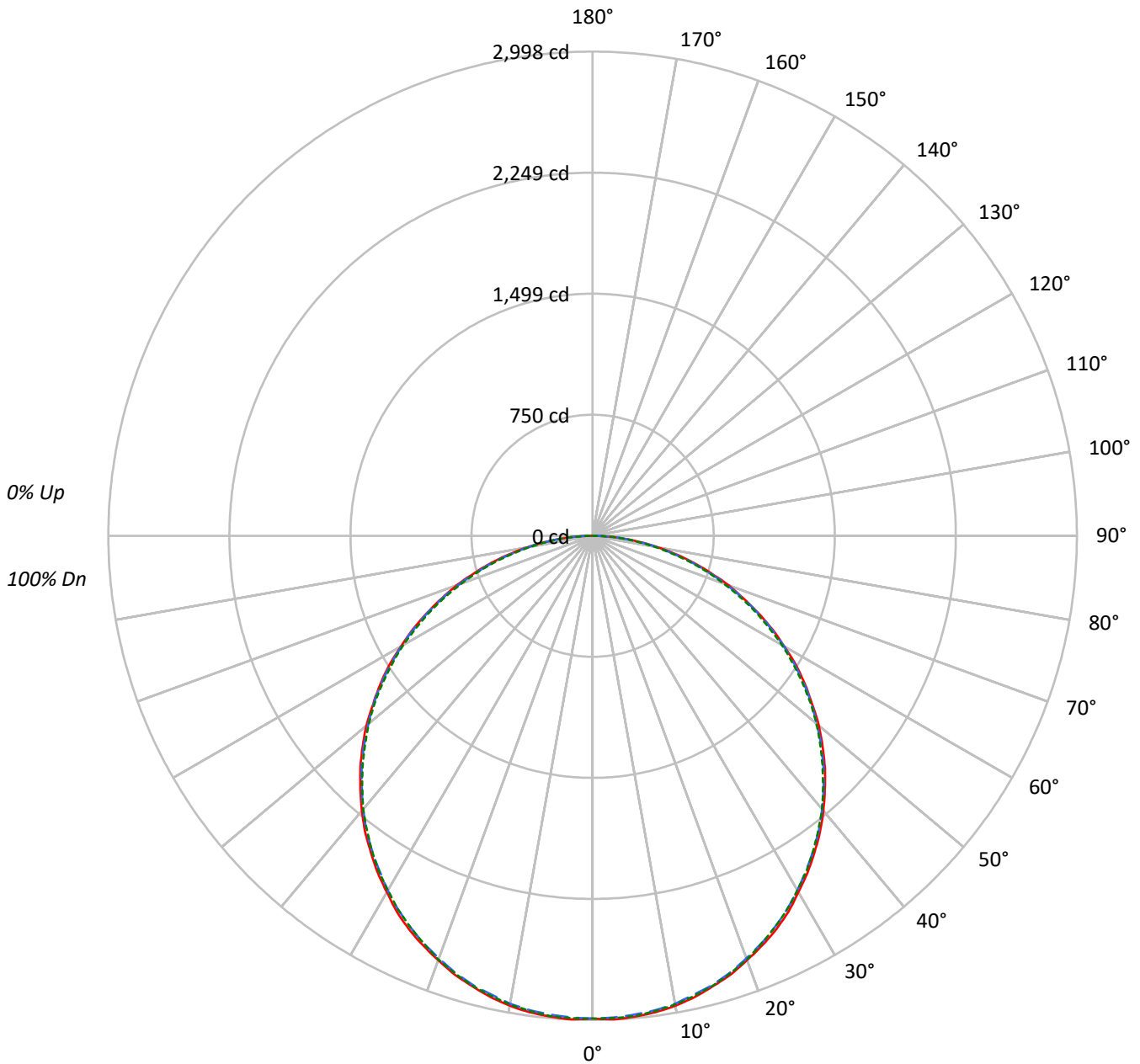
Test Method: LM-79-08  
Report Number: P568452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-90HE-L835  
Description: 2X4 9000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3500K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8784.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 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): 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°	4022	4022	4022
5°	4037	4020	4032
10°	4037	4020	4026
15°	4021	4009	4015
20°	4004	3986	3998
25°	3993	3967	3967
30°	3959	3939	3939
35°	3932	3911	3911
40°	3904	3881	3881
45°	3871	3846	3830
50°	3828	3792	3783
55°	3767	3747	3717
60°	3688	3676	3642
65°	3599	3586	3531
70°	3521	3454	3386
75°	3384	3295	3228
80°	3185	3119	2986
85°	2908	2844	2711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.3	3.2
10°-20°	812.2	9.2
20°-30°	1232.6	14.0
30°-40°	1491.3	17.0
40°-50°	1558.0	17.7
50°-60°	1425.1	16.2
60°-70°	1109.2	12.6
70°-80°	668.5	7.6
80°-90°	203.8	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°	2328.0	26.5
0°-40°	3819.4	43.5
0°-60°	6802.5	77.4
0°-90°	8784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2989	2989	2989	2989	2989	
5°	2989	2981	2976	2976	2985	284
15°	2886	2878	2878	2874	2882	815
25°	2690	2677	2672	2668	2672	1239
35°	2394	2385	2381	2381	2381	1499
45°	2034	2021	2021	2013	2013	1568
55°	1606	1602	1597	1585	1585	1435
65°	1131	1131	1126	1109	1109	1121
75°	651	642	634	621	621	685
85°	188	184	184	176	176	210
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2989.3	2989.3	2989.3	2989.3	2989.3
2.5°	2997.9	2989.3	2985.0	2985.0	2989.3
5°	2989.3	2980.7	2976.4	2976.4	2985.0
7.5°	2976.4	2963.6	2963.6	2959.3	2967.9
10°	2955.0	2942.2	2942.2	2937.9	2946.5
12.5°	2925.1	2912.2	2907.9	2907.9	2916.5
15°	2886.5	2877.9	2877.9	2873.7	2882.2
17.5°	2848.0	2835.1	2835.1	2830.8	2839.4
20°	2796.6	2788.0	2783.7	2783.7	2792.3
22.5°	2745.2	2736.6	2732.3	2732.3	2732.3
25°	2689.5	2676.7	2672.4	2668.1	2672.4
27.5°	2625.3	2608.1	2608.1	2603.9	2608.1
30°	2548.2	2539.6	2535.3	2531.0	2535.3
32.5°	2475.4	2462.5	2458.2	2462.5	2462.5
35°	2394.0	2385.4	2381.2	2381.2	2381.2
37.5°	2312.6	2299.8	2299.8	2295.5	2295.5
40°	2222.7	2214.1	2209.8	2209.8	2209.8
42.5°	2128.5	2119.9	2115.6	2111.3	2111.3
45°	2034.3	2021.4	2021.4	2012.8	2012.8
47.5°	1931.5	1922.9	1918.6	1910.1	1910.1
50°	1828.7	1820.1	1811.6	1811.6	1807.3
52.5°	1713.1	1713.1	1708.8	1700.2	1700.2
55°	1606.0	1601.7	1597.4	1584.6	1584.6
57.5°	1494.6	1490.4	1481.8	1469.0	1469.0
60°	1370.4	1370.4	1366.2	1349.0	1353.3
62.5°	1254.8	1250.5	1246.3	1233.4	1229.1
65°	1130.6	1130.6	1126.3	1109.2	1109.2
67.5°	1010.7	1010.7	1002.1	985.0	985.0
70°	895.1	882.2	877.9	865.1	860.8
72.5°	766.6	762.3	753.7	740.9	740.9
75°	651.0	642.4	633.8	621.0	621.0
77.5°	526.8	518.2	509.6	505.4	496.8
80°	411.1	406.9	402.6	389.7	385.4
82.5°	295.5	291.2	286.9	282.7	278.4
85°	188.4	184.2	184.2	175.6	175.6
87.5°	81.4	85.7	77.1	81.4	77.1
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)