

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: P568288

Luminaire Tested: **14CGTX-42HE-L835**

Issue Date: 9/19/2022

**Test Information**

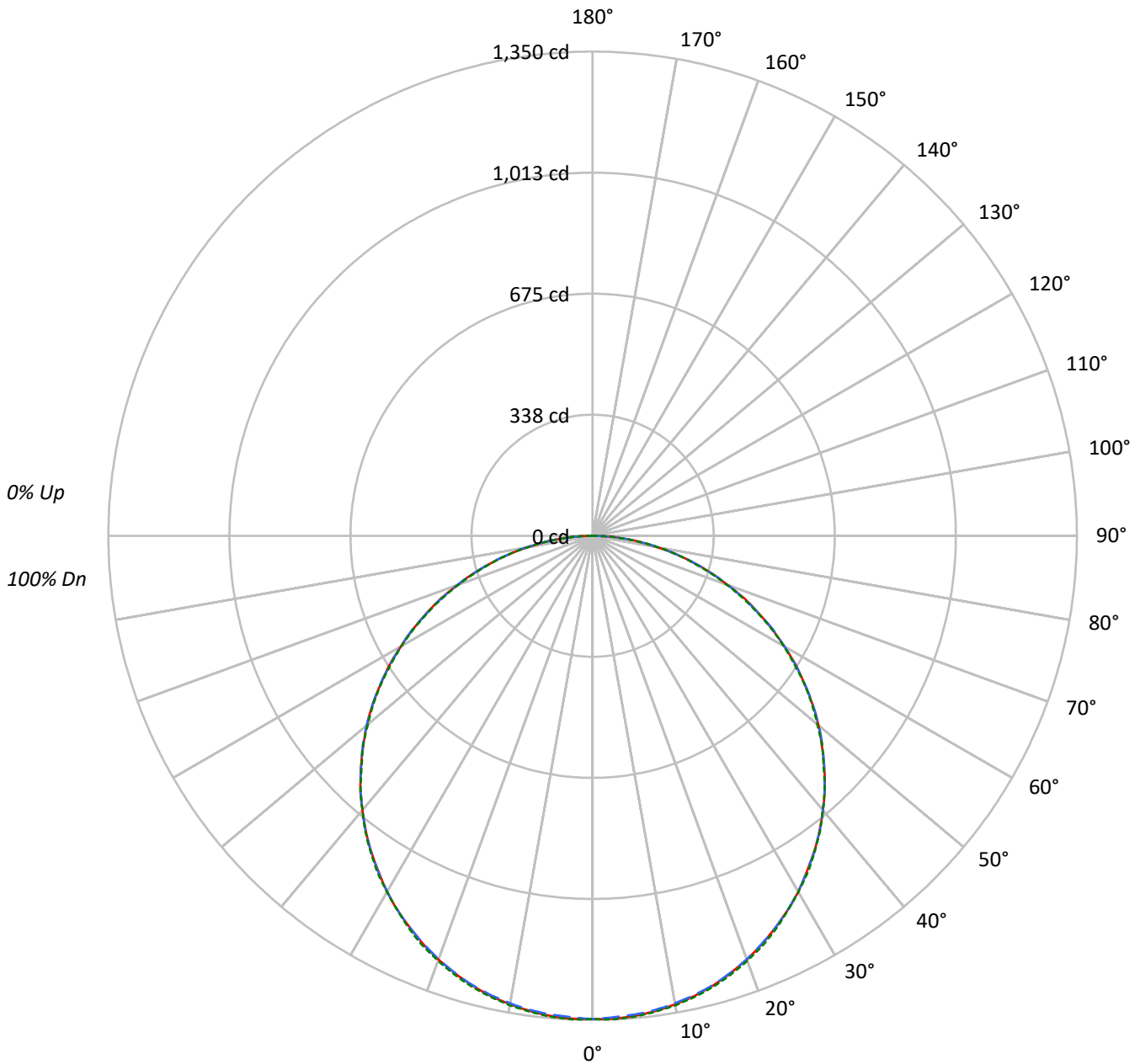
Test Method: LM-79-08  
Report Number: P568288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CGTX-42HE-L835  
Description: 1X4 4200 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: 3984.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.9  
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	93	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	68																			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57																			
4	82	69	60	54	79	68	60	53	66	58	52	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	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3626	3626	3626
5°	3631	3620	3636
10°	3625	3617	3632
15°	3615	3612	3626
20°	3601	3598	3611
25°	3579	3579	3591
30°	3562	3561	3562
35°	3535	3537	3542
40°	3508	3508	3508
45°	3476	3474	3465
50°	3443	3443	3423
55°	3384	3393	3379
60°	3323	3323	3315
65°	3251	3248	3229
70°	3146	3161	3126
75°	3046	3052	3010
80°	2831	2878	2878
85°	2665	2634	2590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	3.2
10°-20°	366.5	9.2
20°-30°	556.5	14.0
30°-40°	673.9	16.9
40°-50°	704.9	17.7
50°-60°	645.6	16.2
60°-70°	504.9	12.7
70°-80°	308.8	7.8
80°-90°	95.1	2.4
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°	1050.8	26.4
0°-40°	1724.6	43.3
0°-60°	3075.1	77.2
0°-90°	3984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1344	1344	1340	1345	1346	128
15°	1298	1299	1297	1300	1302	366
25°	1205	1208	1205	1208	1209	556
35°	1076	1077	1077	1078	1078	673
45°	913	915	913	913	910	705
55°	721	726	723	721	720	646
65°	511	513	510	508	507	505
75°	293	292	294	292	290	309
85°	86	83	85	83	84	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1347.6	1347.6	1343.6	1348.6	1349.6
5°	1344.1	1344.1	1340.1	1344.6	1346.1
7.5°	1336.6	1337.1	1333.6	1338.1	1338.6
10°	1326.7	1327.2	1323.7	1328.7	1329.2
12.5°	1314.2	1314.7	1311.7	1316.2	1316.7
15°	1297.7	1298.7	1296.7	1300.2	1301.7
17.5°	1278.7	1280.2	1277.7	1282.2	1282.7
20°	1257.3	1257.8	1256.3	1259.8	1260.8
22.5°	1232.8	1234.3	1231.8	1236.3	1237.8
25°	1205.4	1207.9	1205.4	1208.4	1209.4
27.5°	1177.4	1179.4	1177.4	1178.9	1177.9
30°	1146.5	1147.0	1146.0	1146.5	1146.5
32.5°	1110.5	1112.5	1111.5	1114.0	1115.0
35°	1076.1	1076.6	1076.6	1078.1	1078.1
37.5°	1038.7	1038.7	1039.2	1040.7	1040.7
40°	998.7	999.7	998.7	999.7	998.7
42.5°	958.3	957.8	958.3	958.8	957.3
45°	913.4	914.9	912.9	912.9	910.4
47.5°	867.0	870.0	869.5	868.0	868.5
50°	822.5	823.5	822.5	821.0	817.6
52.5°	773.1	776.1	773.6	774.1	770.1
55°	721.2	726.2	723.2	721.2	720.2
57.5°	671.8	673.3	670.3	667.8	666.3
60°	617.4	619.4	617.4	615.4	615.9
62.5°	564.0	567.0	567.5	563.5	562.5
65°	510.6	513.1	510.1	508.1	507.1
67.5°	458.7	458.2	455.7	453.2	452.2
70°	399.8	403.3	401.8	402.3	397.3
72.5°	347.4	347.9	346.4	346.4	342.4
75°	293.0	291.5	293.5	291.5	289.5
77.5°	239.1	240.6	240.1	237.6	239.6
80°	182.7	184.7	185.7	183.7	185.7
82.5°	135.3	135.3	134.8	134.8	133.3
85°	86.3	83.4	85.3	83.4	83.9
87.5°	39.4	38.9	36.9	38.4	37.9
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)