

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: P568391

Luminaire Tested: **22CGTX-45-L830**

Issue Date: 9/19/2022



**Test Information**

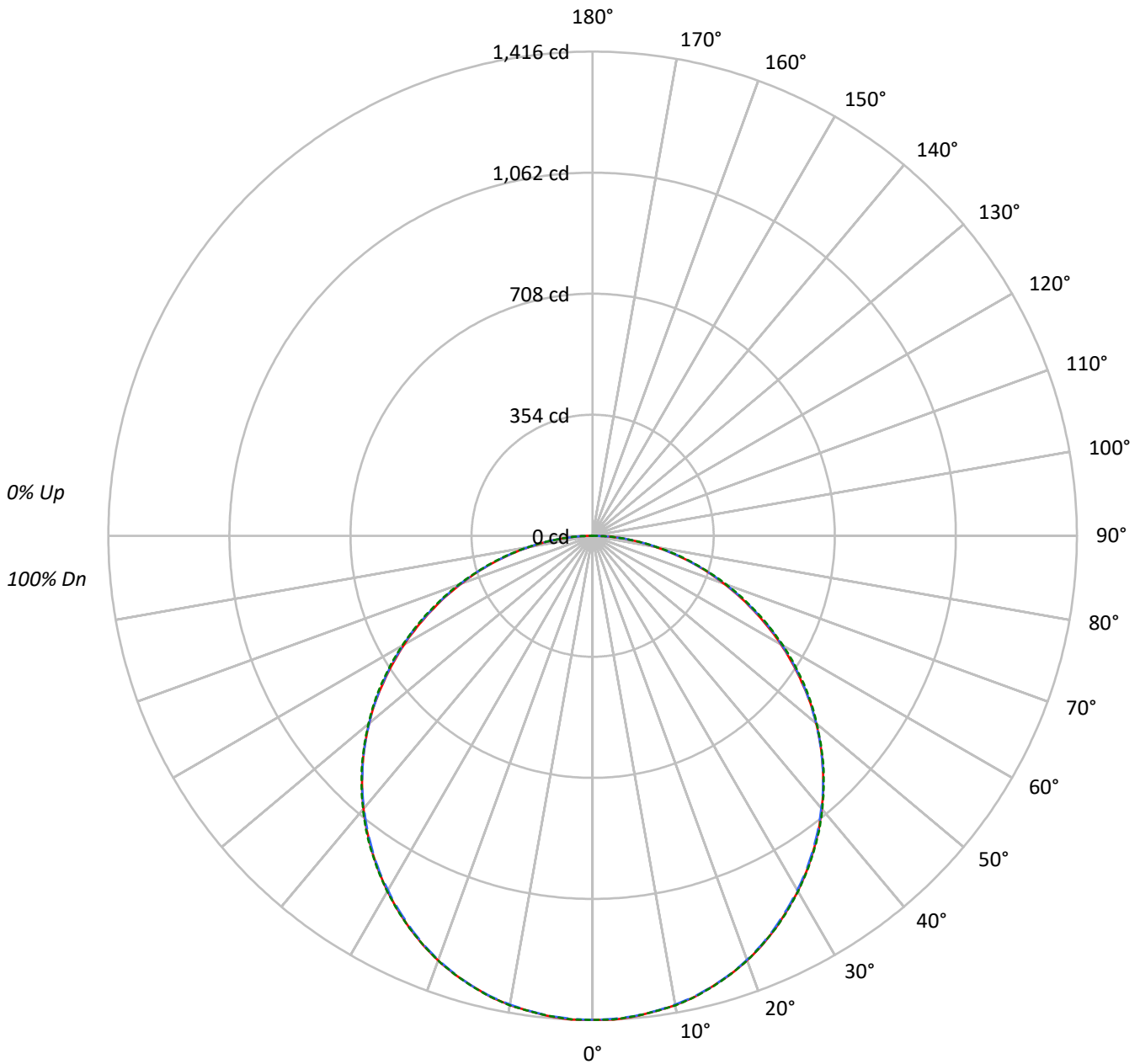
Test Method: LM-79-08  
Report Number: P568391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTX-45-L830  
Description: 2X2 4500 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: 4143.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
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	77	73	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	80	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	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	39	31	26	38	30	26	37	30	25	36	30	25	24																			

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

	0°	45°	90°
0°	3809	3809	3809
5°	3812	3809	3810
10°	3808	3804	3810
15°	3796	3796	3800
20°	3785	3779	3785
25°	3759	3751	3761
30°	3728	3719	3732
35°	3696	3689	3703
40°	3662	3654	3669
45°	3621	3618	3632
50°	3573	3570	3582
55°	3501	3511	3534
60°	3424	3439	3462
65°	3323	3346	3373
70°	3208	3241	3268
75°	3080	3103	3139
80°	2896	2929	2951
85°	2634	2655	2702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.0	3.2
10°-20°	384.6	9.3
20°-30°	582.8	14.1
30°-40°	703.9	17.0
40°-50°	734.3	17.7
50°-60°	669.7	16.2
60°-70°	520.5	12.6
70°-80°	315.8	7.6
80°-90°	97.3	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°	1101.4	26.6
0°-40°	1805.3	43.6
0°-60°	3209.3	77.5
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1411	1409	1410	1409	1411	134
15°	1363	1363	1363	1363	1364	385
25°	1266	1263	1263	1265	1267	583
35°	1125	1124	1123	1127	1127	704
45°	952	951	951	955	954	734
55°	746	748	748	750	753	668
65°	522	523	526	528	530	517
75°	296	296	298	301	302	313
85°	85	86	86	88	88	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1415.6	1415.6	1415.6	1415.6	1415.6
2.5°	1416.3	1414.2	1414.2	1413.5	1415.6
5°	1411.3	1409.2	1409.9	1409.2	1410.6
7.5°	1402.9	1401.5	1402.2	1401.5	1402.9
10°	1393.7	1392.3	1392.3	1392.3	1394.4
12.5°	1381.0	1379.6	1379.6	1379.6	1381.0
15°	1362.7	1362.7	1362.7	1362.7	1364.1
17.5°	1344.3	1342.2	1342.9	1342.2	1344.3
20°	1321.8	1318.9	1319.7	1319.7	1321.8
22.5°	1295.7	1292.9	1293.6	1293.6	1295.0
25°	1266.1	1263.2	1263.2	1265.3	1266.8
27.5°	1233.6	1231.5	1230.8	1234.3	1235.0
30°	1199.8	1198.3	1196.9	1200.5	1201.2
32.5°	1163.8	1162.4	1161.7	1165.2	1165.2
35°	1125.0	1123.6	1122.9	1127.1	1127.1
37.5°	1084.8	1084.1	1082.7	1086.9	1087.6
40°	1042.5	1041.1	1040.3	1044.6	1044.6
42.5°	998.0	996.6	997.3	1000.8	1000.1
45°	951.5	950.8	950.8	955.0	954.3
47.5°	903.5	902.1	902.8	907.0	905.6
50°	853.4	852.0	852.7	857.0	855.6
52.5°	801.9	800.5	801.9	806.2	806.2
55°	746.2	747.6	748.3	750.5	753.3
57.5°	691.9	692.6	695.4	696.9	699.0
60°	636.2	637.6	639.0	641.8	643.3
62.5°	579.1	581.2	585.4	585.4	586.8
65°	521.9	523.3	525.5	527.6	529.7
67.5°	465.5	466.2	469.7	470.4	472.6
70°	407.7	408.4	411.9	412.6	415.4
72.5°	352.7	352.0	354.8	358.3	358.3
75°	296.2	295.5	298.4	301.2	301.9
77.5°	241.2	240.5	242.6	246.2	246.2
80°	186.9	188.3	189.0	191.8	190.4
82.5°	134.7	135.4	136.1	138.2	136.8
85°	85.3	86.0	86.0	88.2	87.5
87.5°	40.2	39.5	39.5	40.9	40.2
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)