

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: P568336

Luminaire Tested: **14CGTX-42-L850**

Issue Date: 9/19/2022



Test Information

Test Method: LM-79-08
Report Number: P568336
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-42-L850
Description: 1X4 4200 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

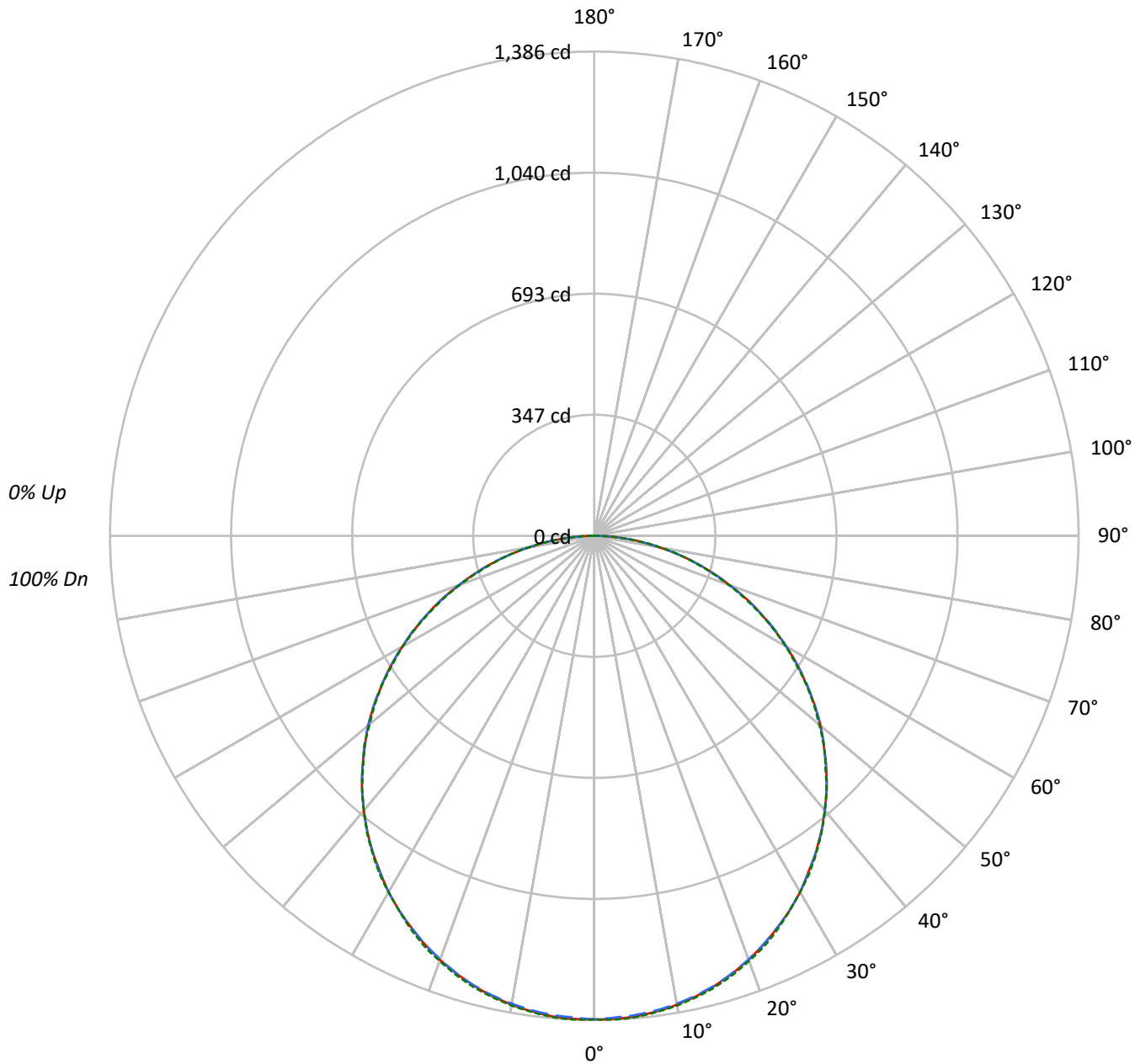
Lumens per Lamp: N/A
Luminaire Lumens: 4093.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (A_{in}): 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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3726	3726	3726
5°	3730	3719	3736
10°	3724	3716	3731
15°	3714	3711	3726
20°	3699	3696	3709
25°	3677	3677	3689
30°	3660	3658	3660
35°	3632	3634	3639
40°	3605	3605	3605
45°	3571	3569	3559
50°	3538	3538	3516
55°	3476	3486	3471
60°	3414	3414	3406
65°	3340	3337	3317
70°	3231	3248	3212
75°	3130	3135	3092
80°	2909	2957	2957
85°	2739	2708	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.2
10°-20°	376.6	9.2
20°-30°	571.7	14.0
30°-40°	692.3	16.9
40°-50°	724.2	17.7
50°-60°	663.3	16.2
60°-70°	518.8	12.7
70°-80°	317.3	7.8
80°-90°	97.7	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°	1079.5	26.4
0°-40°	1771.8	43.3
0°-60°	3159.3	77.2
0°-90°	4093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1381	1381	1377	1381	1383	131
15°	1333	1334	1332	1336	1337	376
25°	1238	1241	1238	1241	1242	571
35°	1106	1106	1106	1108	1108	692
45°	938	940	938	938	935	724
55°	741	746	743	741	740	663
65°	525	527	524	522	521	519
75°	301	300	302	300	297	317
85°	89	86	88	86	86	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.5	1384.5	1384.5	1384.5	1384.5
2.5°	1384.5	1384.5	1380.4	1385.5	1386.5
5°	1380.9	1380.9	1376.8	1381.4	1383.0
7.5°	1373.2	1373.7	1370.1	1374.7	1375.3
10°	1363.0	1363.5	1359.9	1365.0	1365.5
12.5°	1350.1	1350.6	1347.6	1352.2	1352.7
15°	1333.2	1334.2	1332.2	1335.8	1337.3
17.5°	1313.7	1315.3	1312.7	1317.3	1317.8
20°	1291.7	1292.2	1290.7	1294.2	1295.3
22.5°	1266.6	1268.1	1265.5	1270.1	1271.7
25°	1238.3	1240.9	1238.3	1241.4	1242.5
27.5°	1209.6	1211.7	1209.6	1211.2	1210.1
30°	1177.8	1178.4	1177.3	1177.8	1177.8
32.5°	1140.9	1143.0	1141.9	1144.5	1145.5
35°	1105.5	1106.1	1106.1	1107.6	1107.6
37.5°	1067.1	1067.1	1067.6	1069.1	1069.1
40°	1026.1	1027.1	1026.1	1027.1	1026.1
42.5°	984.5	984.0	984.5	985.0	983.5
45°	938.4	939.9	937.9	937.9	935.3
47.5°	890.7	893.8	893.3	891.7	892.2
50°	845.1	846.1	845.1	843.5	839.9
52.5°	794.3	797.4	794.8	795.3	791.2
55°	741.0	746.1	743.0	741.0	739.9
57.5°	690.2	691.7	688.7	686.1	684.6
60°	634.3	636.4	634.3	632.2	632.8
62.5°	579.4	582.5	583.0	578.9	577.9
65°	524.6	527.1	524.1	522.0	521.0
67.5°	471.2	470.7	468.2	465.6	464.6
70°	410.7	414.3	412.8	413.3	408.2
72.5°	356.9	357.4	355.9	355.9	351.8
75°	301.0	299.5	301.5	299.5	297.4
77.5°	245.6	247.2	246.6	244.1	246.1
80°	187.7	189.7	190.8	188.7	190.8
82.5°	139.0	139.0	138.4	138.4	136.9
85°	88.7	85.6	87.7	85.6	86.1
87.5°	40.5	40.0	37.9	39.5	39.0
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)