

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: P568308

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

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568308
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-L850
Description: 1X4 4200 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

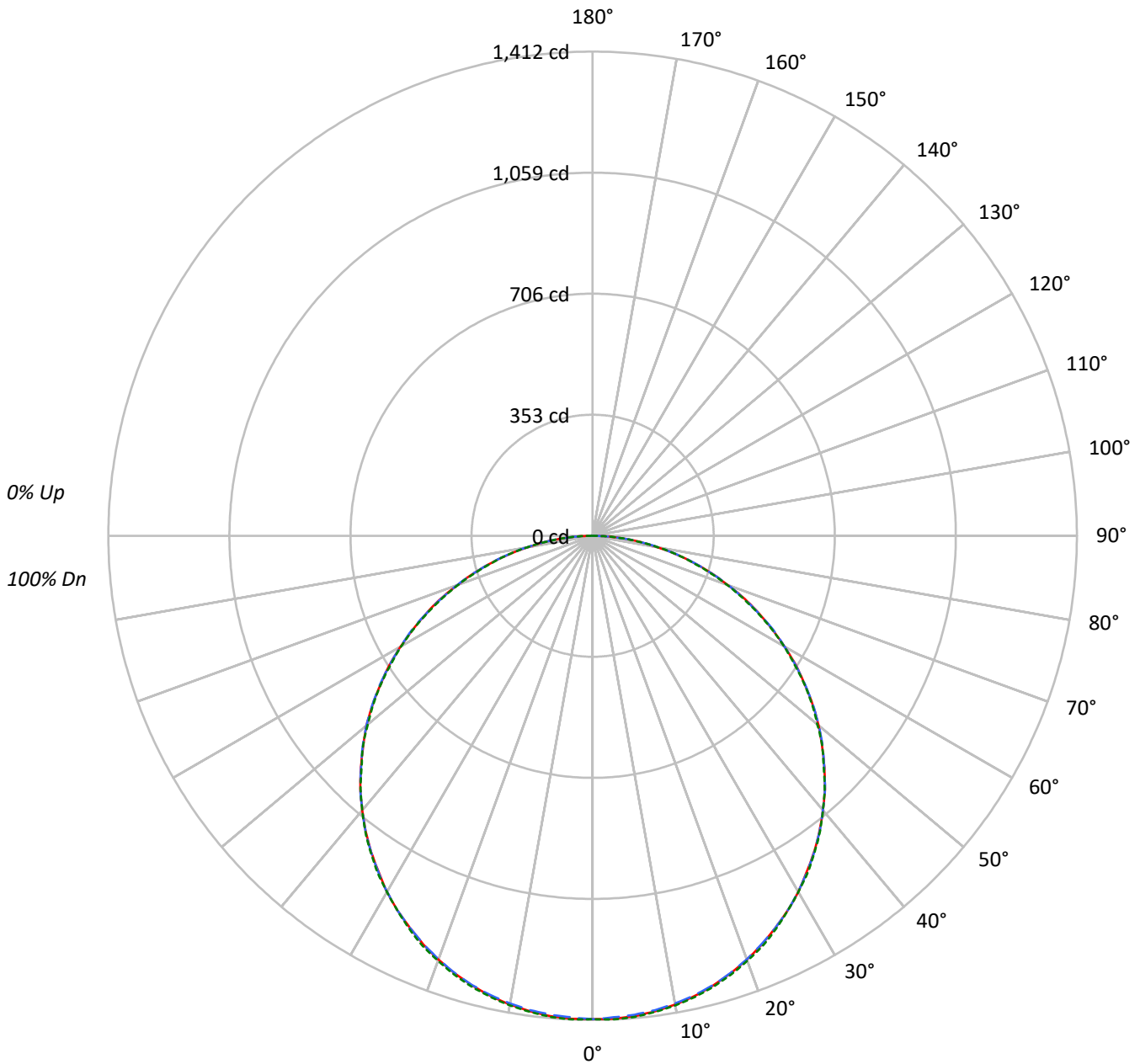
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.0 lumens
Efficiency: N/A
Efficacy: 130.7 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_{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

TEST NUMBER: P568308
CATALOG NUMBER: 14CGTX-42HE-L850

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	69																			
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°	3794	3794	3794
5°	3799	3787	3804
10°	3792	3784	3800
15°	3782	3779	3794
20°	3767	3764	3777
25°	3744	3744	3757
30°	3727	3725	3727
35°	3698	3700	3705
40°	3671	3671	3671
45°	3637	3634	3624
50°	3602	3602	3581
55°	3540	3550	3535
60°	3476	3476	3468
65°	3401	3398	3378
70°	3291	3307	3270
75°	3187	3192	3149
80°	2961	3009	3009
85°	2788	2757	2708



TEST NUMBER: P568308

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.2
10°-20°	383.5	9.2
20°-30°	582.2	14.0
30°-40°	705.0	16.9
40°-50°	737.5	17.7
50°-60°	675.4	16.2
60°-70°	528.3	12.7
70°-80°	323.1	7.8
80°-90°	99.5	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°	1099.3	26.4
0°-40°	1804.3	43.3
0°-60°	3217.2	77.2
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1406	1406	1402	1407	1408	134
15°	1358	1359	1357	1360	1362	383
25°	1261	1264	1261	1264	1265	582
35°	1126	1126	1126	1128	1128	704
45°	956	957	955	955	952	737
55°	754	760	757	754	754	675
65°	534	537	534	532	530	529
75°	306	305	307	305	303	323
85°	90	87	89	87	88	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.9	1409.9	1409.9	1409.9	1409.9
2.5°	1409.9	1409.9	1405.7	1410.9	1411.9
5°	1406.2	1406.2	1402.0	1406.7	1408.3
7.5°	1398.4	1398.9	1395.2	1399.9	1400.5
10°	1387.9	1388.4	1384.8	1390.0	1390.5
12.5°	1374.9	1375.4	1372.3	1377.0	1377.5
15°	1357.6	1358.7	1356.6	1360.3	1361.8
17.5°	1337.8	1339.4	1336.8	1341.5	1342.0
20°	1315.3	1315.9	1314.3	1318.0	1319.0
22.5°	1289.8	1291.3	1288.7	1293.4	1295.0
25°	1261.0	1263.7	1261.0	1264.2	1265.2
27.5°	1231.8	1233.9	1231.8	1233.4	1232.3
30°	1199.4	1199.9	1198.9	1199.4	1199.4
32.5°	1161.8	1163.9	1162.9	1165.5	1166.5
35°	1125.8	1126.3	1126.3	1127.9	1127.9
37.5°	1086.6	1086.6	1087.2	1088.7	1088.7
40°	1044.9	1045.9	1044.9	1045.9	1044.9
42.5°	1002.6	1002.0	1002.6	1003.1	1001.5
45°	955.6	957.1	955.0	955.0	952.4
47.5°	907.0	910.1	909.6	908.1	908.6
50°	860.5	861.6	860.5	859.0	855.3
52.5°	808.8	812.0	809.4	809.9	805.7
55°	754.5	759.8	756.6	754.5	753.5
57.5°	702.8	704.4	701.3	698.7	697.1
60°	645.9	648.0	645.9	643.8	644.4
62.5°	590.1	593.2	593.7	589.5	588.5
65°	534.2	536.8	533.7	531.6	530.5
67.5°	479.9	479.4	476.7	474.1	473.1
70°	418.3	421.9	420.3	420.9	415.6
72.5°	363.4	364.0	362.4	362.4	358.2
75°	306.5	304.9	307.0	304.9	302.9
77.5°	250.1	251.7	251.2	248.6	250.6
80°	191.1	193.2	194.2	192.2	194.2
82.5°	141.5	141.5	141.0	141.0	139.4
85°	90.3	87.2	89.3	87.2	87.7
87.5°	41.3	40.7	38.6	40.2	39.7
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)