

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: P568278

Luminaire Tested: **14CGTX-42HE-L830**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568278
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-L830
Description: 1X4 4200 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

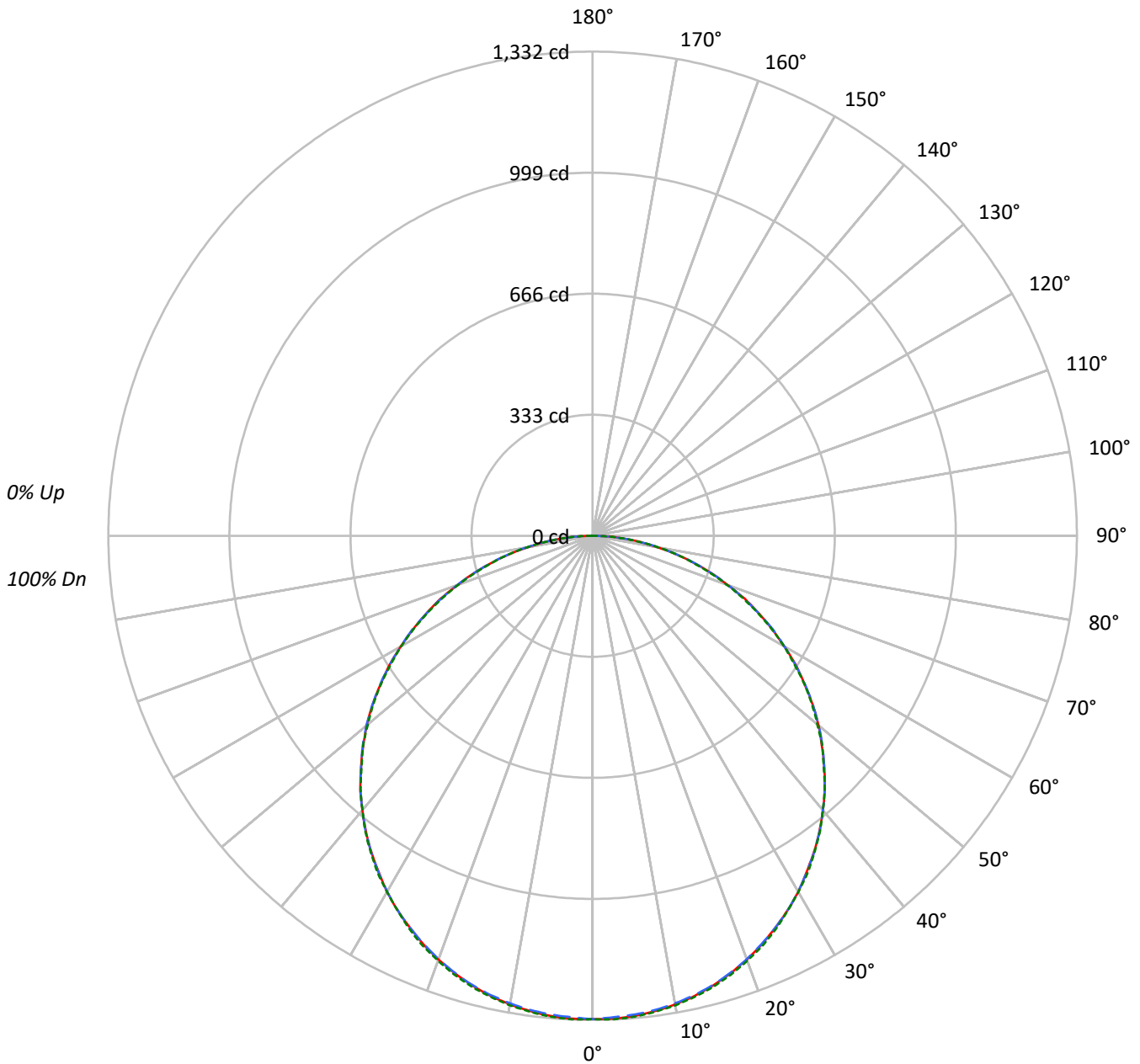
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

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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					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°	3578	3578	3578
5°	3582	3572	3588
10°	3577	3569	3584
15°	3567	3565	3578
20°	3553	3550	3562
25°	3531	3531	3543
30°	3515	3513	3515
35°	3488	3490	3495
40°	3462	3462	3462
45°	3430	3428	3419
50°	3398	3398	3377
55°	3339	3348	3334
60°	3279	3279	3271
65°	3208	3205	3186
70°	3104	3119	3084
75°	3006	3011	2969
80°	2793	2839	2839
85°	2631	2600	2553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.2
10°-20°	361.7	9.2
20°-30°	549.1	14.0
30°-40°	664.9	16.9
40°-50°	695.5	17.7
50°-60°	637.0	16.2
60°-70°	498.2	12.7
70°-80°	304.7	7.8
80°-90°	93.8	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°	1036.8	26.4
0°-40°	1701.7	43.3
0°-60°	3034.2	77.2
0°-90°	3931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1326	1326	1322	1327	1328	126
15°	1280	1281	1280	1283	1284	361
25°	1189	1192	1189	1192	1193	549
35°	1062	1062	1062	1064	1064	664
45°	901	903	901	901	898	695
55°	712	717	714	712	711	637
65°	504	506	503	501	500	499
75°	289	288	290	288	286	305
85°	85	82	84	82	83	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.7	1329.7	1329.7	1329.7	1329.7
2.5°	1329.7	1329.7	1325.8	1330.7	1331.7
5°	1326.2	1326.2	1322.3	1326.7	1328.2
7.5°	1318.9	1319.3	1315.9	1320.3	1320.8
10°	1309.0	1309.5	1306.1	1311.0	1311.5
12.5°	1296.7	1297.2	1294.2	1298.7	1299.2
15°	1280.4	1281.4	1279.5	1282.9	1284.4
17.5°	1261.7	1263.2	1260.7	1265.2	1265.7
20°	1240.6	1241.0	1239.6	1243.0	1244.0
22.5°	1216.4	1217.9	1215.4	1219.9	1221.3
25°	1189.3	1191.8	1189.3	1192.3	1193.3
27.5°	1161.8	1163.7	1161.8	1163.2	1162.2
30°	1131.2	1131.7	1130.7	1131.2	1131.2
32.5°	1095.8	1097.7	1096.7	1099.2	1100.2
35°	1061.8	1062.3	1062.3	1063.8	1063.8
37.5°	1024.8	1024.8	1025.3	1026.8	1026.8
40°	985.4	986.4	985.4	986.4	985.4
42.5°	945.6	945.1	945.6	946.1	944.6
45°	901.2	902.7	900.7	900.7	898.3
47.5°	855.4	858.4	857.9	856.4	856.9
50°	811.6	812.6	811.6	810.1	806.7
52.5°	762.8	765.8	763.3	763.8	759.9
55°	711.6	716.6	713.6	711.6	710.6
57.5°	662.9	664.4	661.4	658.9	657.5
60°	609.2	611.2	609.2	607.2	607.7
62.5°	556.5	559.5	559.9	556.0	555.0
65°	503.8	506.3	503.3	501.3	500.4
67.5°	452.6	452.1	449.6	447.2	446.2
70°	394.5	397.9	396.4	396.9	392.0
72.5°	342.8	343.3	341.8	341.8	337.8
75°	289.1	287.6	289.6	287.6	285.6
77.5°	235.9	237.4	236.9	234.4	236.4
80°	180.2	182.2	183.2	181.2	183.2
82.5°	133.5	133.5	133.0	133.0	131.5
85°	85.2	82.2	84.2	82.2	82.7
87.5°	38.9	38.4	36.4	37.9	37.4
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)