

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: P568324

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

Issue Date: 9/19/2022



Test Information

Test Method: LM-79-08
Report Number: P568324
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-L835
Description: 1X4 4200 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3500K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

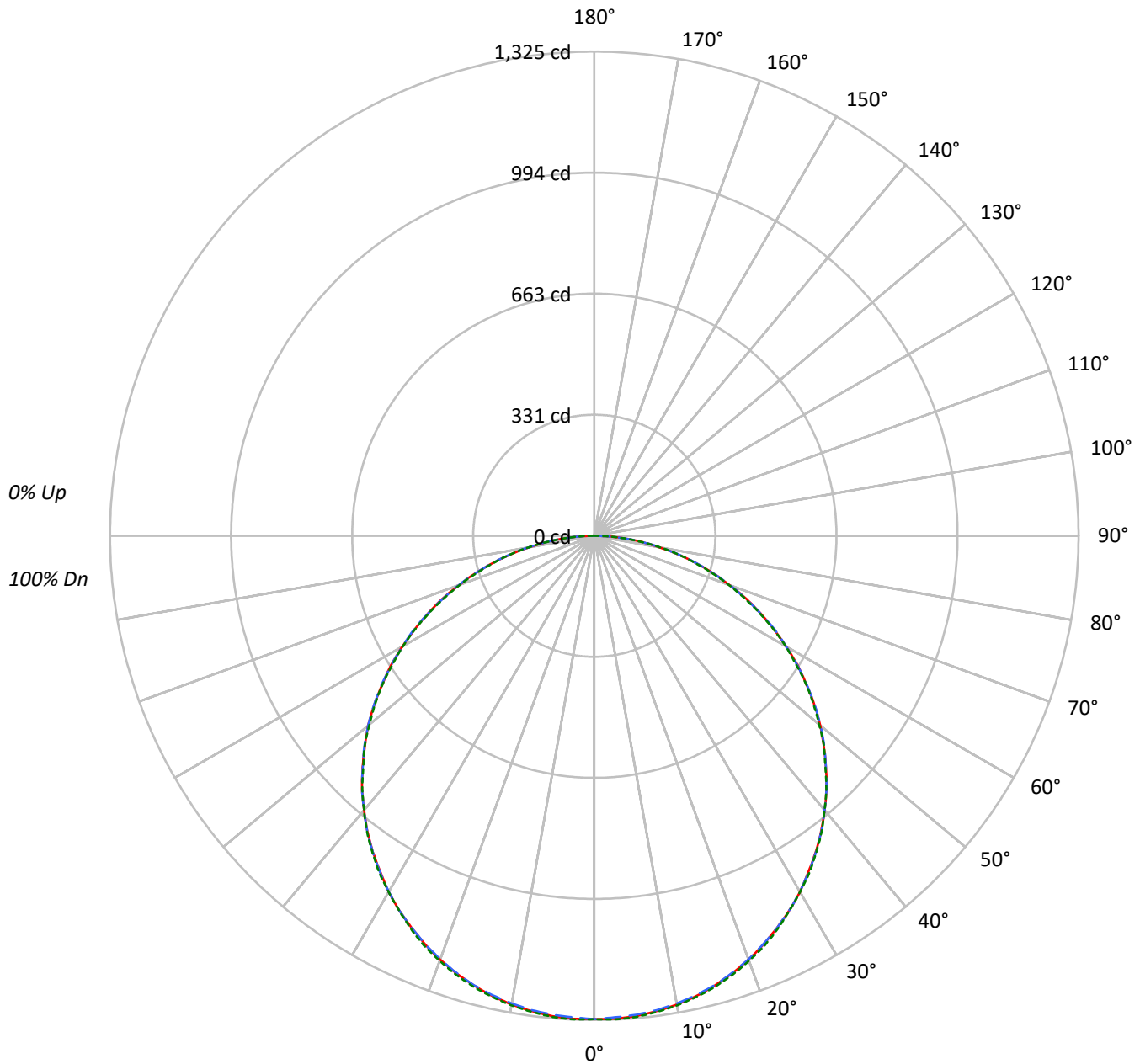
Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): 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					0
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	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°	3560	3560	3560
5°	3564	3554	3570
10°	3559	3551	3565
15°	3549	3546	3560
20°	3534	3532	3544
25°	3513	3513	3525
30°	3497	3496	3497
35°	3470	3472	3477
40°	3444	3444	3444
45°	3412	3411	3401
50°	3381	3381	3360
55°	3322	3331	3317
60°	3262	3262	3254
65°	3191	3189	3170
70°	3088	3103	3068
75°	2990	2995	2955
80°	2779	2825	2825
85°	2618	2587	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.2
10°-20°	359.8	9.2
20°-30°	546.3	14.0
30°-40°	661.5	16.9
40°-50°	692.0	17.7
50°-60°	633.8	16.2
60°-70°	495.7	12.7
70°-80°	303.1	7.8
80°-90°	93.4	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°	1031.5	26.4
0°-40°	1693.0	43.3
0°-60°	3018.8	77.2
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1320	1320	1316	1320	1322	125
15°	1274	1275	1273	1276	1278	360
25°	1183	1186	1183	1186	1187	546
35°	1056	1057	1057	1058	1058	661
45°	897	898	896	896	894	692
55°	708	713	710	708	707	634
65°	501	504	501	499	498	496
75°	288	286	288	286	284	303
85°	85	82	84	82	82	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.9	1322.9	1322.9	1322.9	1322.9
2.5°	1322.9	1322.9	1319.0	1323.9	1324.9
5°	1319.5	1319.5	1315.6	1320.0	1321.5
7.5°	1312.1	1312.6	1309.2	1313.6	1314.1
10°	1302.3	1302.8	1299.4	1304.3	1304.8
12.5°	1290.1	1290.6	1287.6	1292.1	1292.5
15°	1273.9	1274.9	1272.9	1276.4	1277.8
17.5°	1255.3	1256.8	1254.3	1258.7	1259.2
20°	1234.2	1234.7	1233.3	1236.7	1237.7
22.5°	1210.2	1211.7	1209.3	1213.7	1215.1
25°	1183.3	1185.7	1183.3	1186.2	1187.2
27.5°	1155.8	1157.8	1155.8	1157.3	1156.3
30°	1125.5	1126.0	1125.0	1125.5	1125.5
32.5°	1090.2	1092.1	1091.2	1093.6	1094.6
35°	1056.4	1056.9	1056.9	1058.3	1058.3
37.5°	1019.6	1019.6	1020.1	1021.6	1021.6
40°	980.4	981.4	980.4	981.4	980.4
42.5°	940.7	940.3	940.7	941.2	939.8
45°	896.6	898.1	896.2	896.2	893.7
47.5°	851.1	854.0	853.5	852.1	852.6
50°	807.5	808.5	807.5	806.0	802.6
52.5°	759.0	761.9	759.5	759.9	756.0
55°	708.0	712.9	710.0	708.0	707.0
57.5°	659.5	661.0	658.0	655.6	654.1
60°	606.1	608.1	606.1	604.1	604.6
62.5°	553.7	556.6	557.1	553.2	552.2
65°	501.2	503.7	500.8	498.8	497.8
67.5°	450.3	449.8	447.3	444.9	443.9
70°	392.5	395.9	394.4	394.9	390.0
72.5°	341.0	341.5	340.0	340.0	336.1
75°	287.6	286.1	288.1	286.1	284.2
77.5°	234.7	236.2	235.7	233.2	235.2
80°	179.3	181.3	182.3	180.3	182.3
82.5°	132.8	132.8	132.3	132.3	130.8
85°	84.8	81.8	83.8	81.8	82.3
87.5°	38.7	38.2	36.3	37.7	37.2
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)