

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: P568333

Luminaire Tested: **14CGTX-42-L940**

Issue Date: 9/19/2022



Test Information

Test Method: LM-79-08
Report Number: P568333
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-L940
Description: 1X4 4200 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 90CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

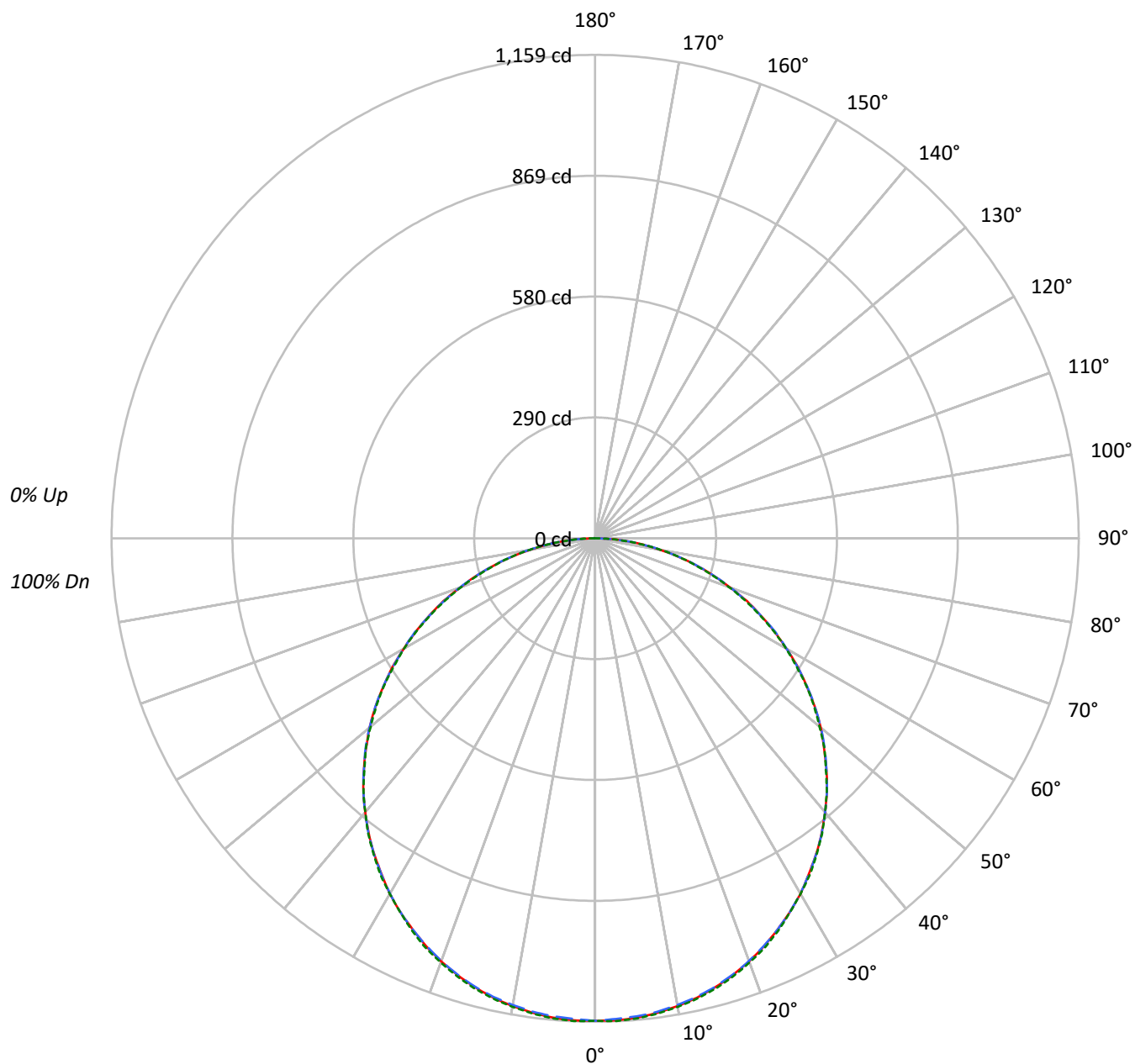
Lumens per Lamp: N/A
Luminaire Lumens: 3420.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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	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°	3113	3113	3113
5°	3117	3108	3122
10°	3112	3105	3118
15°	3103	3101	3113
20°	3091	3088	3099
25°	3072	3072	3083
30°	3058	3057	3058
35°	3035	3036	3040
40°	3012	3012	3012
45°	2984	2982	2974
50°	2956	2956	2938
55°	2905	2913	2901
60°	2852	2852	2845
65°	2791	2788	2772
70°	2700	2714	2684
75°	2615	2619	2584
80°	2430	2470	2470
85°	2288	2263	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.2
10°-20°	314.6	9.2
20°-30°	477.7	14.0
30°-40°	578.5	16.9
40°-50°	605.1	17.7
50°-60°	554.2	16.2
60°-70°	433.5	12.7
70°-80°	265.1	7.8
80°-90°	81.6	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°	902.0	26.4
0°-40°	1480.5	43.3
0°-60°	2639.8	77.2
0°-90°	3420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1154	1154	1150	1154	1156	110
15°	1114	1115	1113	1116	1117	314
25°	1035	1037	1035	1037	1038	477
35°	924	924	924	926	926	578
45°	784	785	784	784	782	605
55°	619	623	621	619	618	554
65°	438	440	438	436	435	434
75°	252	250	252	250	248	265
85°	74	72	73	72	72	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.8	1156.8	1156.8	1156.8	<i>1156.8</i>
2.5°	<i>1156.8</i>	<i>1156.8</i>	<i>1153.4</i>	<i>1157.7</i>	<i>1158.6</i>
5°	1153.8	1153.8	1150.4	1154.3	<i>1155.6</i>
7.5°	1147.4	1147.8	1144.8	1148.7	<i>1149.1</i>
10°	1138.8	1139.3	1136.3	1140.6	<i>1141.0</i>
12.5°	1128.1	1128.6	1126.0	1129.8	<i>1130.3</i>
15°	1114.0	1114.9	1113.1	1116.1	<i>1117.4</i>
17.5°	1097.7	1099.0	1096.9	1100.7	<i>1101.1</i>
20°	1079.3	1079.7	1078.4	1081.4	<i>1082.3</i>
22.5°	1058.3	1059.6	1057.4	1061.3	<i>1062.6</i>
25°	1034.7	1036.9	1034.7	1037.3	<i>1038.2</i>
27.5°	1010.7	1012.5	1010.7	1012.0	<i>1011.2</i>
30°	984.2	984.6	983.7	984.2	<i>984.2</i>
32.5°	953.3	955.0	954.2	956.3	<i>957.2</i>
35°	923.8	924.2	924.2	925.5	<i>925.5</i>
37.5°	891.6	891.6	892.1	893.3	<i>893.3</i>
40°	857.3	858.2	857.3	858.2	<i>857.3</i>
42.5°	822.6	822.2	822.6	823.1	<i>821.8</i>
45°	784.1	785.4	783.7	783.7	<i>781.5</i>
47.5°	744.2	746.8	746.4	745.1	<i>745.5</i>
50°	706.1	707.0	706.1	704.8	<i>701.8</i>
52.5°	663.7	666.3	664.1	664.5	<i>661.1</i>
55°	619.1	623.4	620.8	619.1	<i>618.3</i>
57.5°	576.7	578.0	575.4	573.3	<i>572.0</i>
60°	530.0	531.7	530.0	528.3	<i>528.7</i>
62.5°	484.2	486.7	487.2	483.7	<i>482.9</i>
65°	438.3	440.5	437.9	436.2	<i>435.3</i>
67.5°	393.8	393.3	391.2	389.0	<i>388.2</i>
70°	343.2	346.2	344.9	345.3	<i>341.1</i>
72.5°	298.2	298.6	297.4	297.4	<i>293.9</i>
75°	251.5	250.2	251.9	250.2	<i>248.5</i>
77.5°	205.2	206.5	206.1	203.9	<i>205.7</i>
80°	156.8	158.5	159.4	157.7	<i>159.4</i>
82.5°	116.1	116.1	115.7	115.7	<i>114.4</i>
85°	74.1	71.6	73.3	71.6	<i>72.0</i>
87.5°	33.8	33.4	31.7	33.0	<i>32.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)