

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: P568298

Luminaire Tested: **14CGTX-42HE-L840**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568298
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-L840
Description: 1X4 4200 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

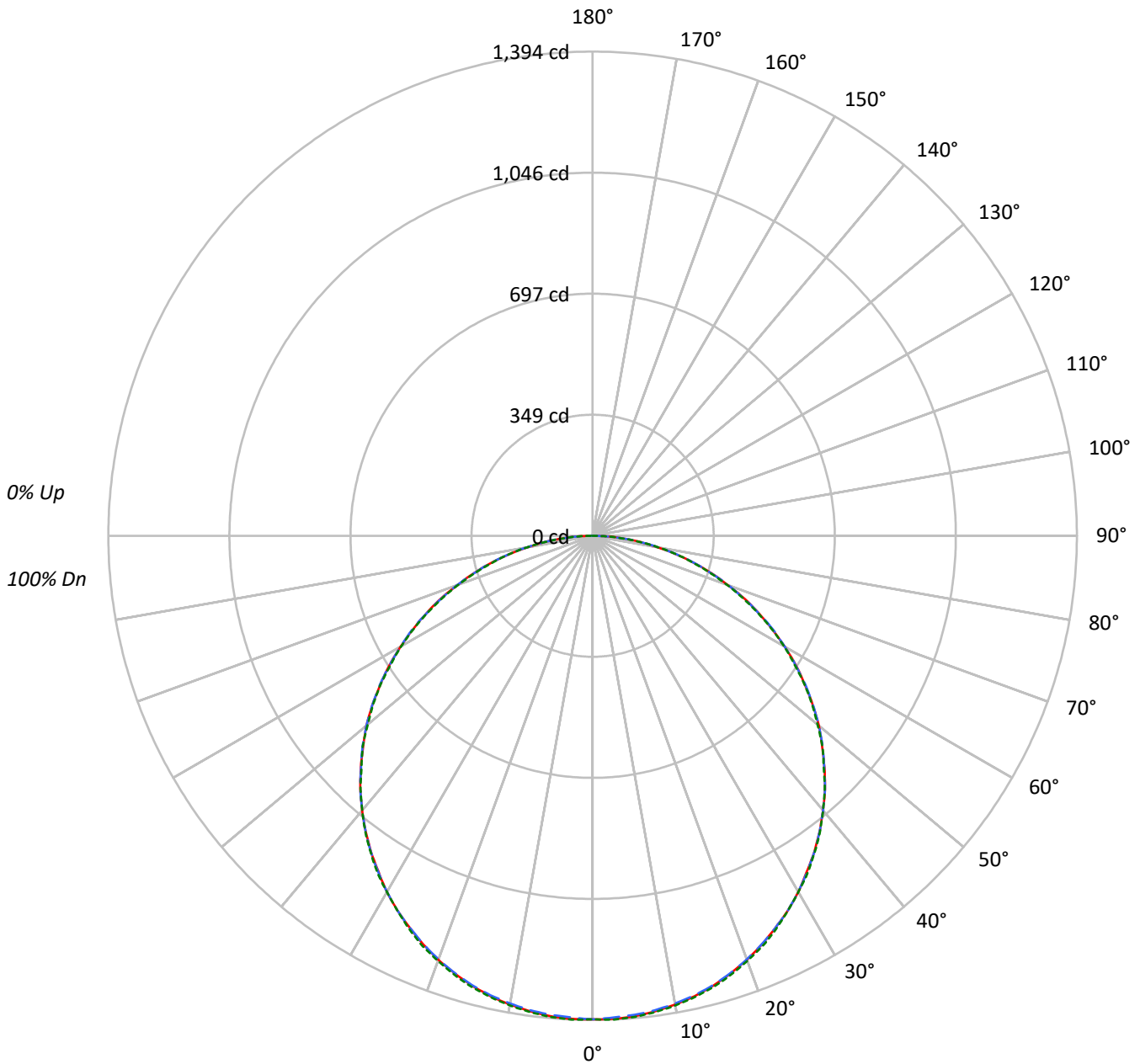
Lumens per Lamp: N/A
Luminaire Lumens: 4116.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									
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°	3747	3747	3747
5°	3751	3740	3757
10°	3745	3737	3752
15°	3735	3732	3746
20°	3720	3717	3730
25°	3698	3698	3710
30°	3681	3679	3681
35°	3652	3654	3659
40°	3625	3625	3625
45°	3591	3589	3580
50°	3558	3558	3536
55°	3496	3506	3491
60°	3433	3433	3425
65°	3359	3356	3336
70°	3249	3266	3230
75°	3147	3152	3110
80°	2924	2972	2972
85°	2754	2723	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.2
10°-20°	378.7	9.2
20°-30°	575.0	14.0
30°-40°	696.2	16.9
40°-50°	728.3	17.7
50°-60°	667.0	16.2
60°-70°	521.7	12.7
70°-80°	319.0	7.8
80°-90°	98.2	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°	1085.6	26.4
0°-40°	1781.8	43.3
0°-60°	3177.0	77.2
0°-90°	4116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1389	1389	1384	1389	1391	132
15°	1341	1342	1340	1343	1345	378
25°	1245	1248	1245	1248	1249	574
35°	1112	1112	1112	1114	1114	696
45°	944	945	943	943	941	728
55°	745	750	747	745	744	667
65°	528	530	527	525	524	522
75°	303	301	303	301	299	319
85°	89	86	88	86	87	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.3	1392.3	1392.3	1392.3	<i>1392.3</i>
2.5°	<i>1392.3</i>	<i>1392.3</i>	<i>1388.1</i>	<i>1393.3</i>	<i>1394.3</i>
5°	1388.7	1388.7	1384.5	1389.2	<i>1390.7</i>
7.5°	1380.9	1381.4	1377.8	1382.5	<i>1383.0</i>
10°	1370.6	1371.1	1367.5	1372.7	<i>1373.2</i>
12.5°	1357.7	1358.2	1355.1	1359.8	<i>1360.3</i>
15°	1340.7	1341.7	1339.7	1343.3	<i>1344.8</i>
17.5°	1321.1	1322.7	1320.1	1324.7	<i>1325.2</i>
20°	1298.9	1299.5	1297.9	1301.5	<i>1302.5</i>
22.5°	1273.7	1275.2	1272.6	1277.3	<i>1278.8</i>
25°	1245.3	1247.9	1245.3	1248.4	<i>1249.4</i>
27.5°	1216.4	1218.5	1216.4	1218.0	<i>1216.9</i>
30°	1184.5	1185.0	1183.9	1184.5	<i>1184.5</i>
32.5°	1147.3	1149.4	1148.4	1150.9	<i>1152.0</i>
35°	1111.8	1112.3	1112.3	1113.8	<i>1113.8</i>
37.5°	1073.1	1073.1	1073.6	1075.1	<i>1075.1</i>
40°	1031.8	1032.9	1031.8	1032.9	<i>1031.8</i>
42.5°	990.1	989.5	990.1	990.6	<i>989.0</i>
45°	943.6	945.2	943.1	943.1	<i>940.6</i>
47.5°	895.7	898.8	898.3	896.7	<i>897.2</i>
50°	849.8	850.8	849.8	848.3	<i>844.6</i>
52.5°	798.7	801.8	799.3	799.8	<i>795.7</i>
55°	745.1	750.3	747.2	745.1	<i>744.1</i>
57.5°	694.1	695.6	692.5	689.9	<i>688.4</i>
60°	637.9	639.9	637.9	635.8	<i>636.3</i>
62.5°	582.7	585.8	586.3	582.2	<i>581.1</i>
65°	527.5	530.1	527.0	524.9	<i>523.9</i>
67.5°	473.9	473.4	470.8	468.2	<i>467.2</i>
70°	413.0	416.6	415.1	415.6	<i>410.5</i>
72.5°	358.9	359.4	357.9	357.9	<i>353.7</i>
75°	302.7	301.1	303.2	301.1	<i>299.1</i>
77.5°	247.0	248.5	248.0	245.5	<i>247.5</i>
80°	188.7	190.8	191.8	189.8	<i>191.8</i>
82.5°	139.7	139.7	139.2	139.2	<i>137.7</i>
85°	89.2	86.1	88.2	86.1	<i>86.6</i>
87.5°	40.7	40.2	38.2	39.7	<i>39.2</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)