

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: P568309

Luminaire Tested: **14CGTX-70HE-L850**

Issue Date: 9/19/2022

**Test Information**

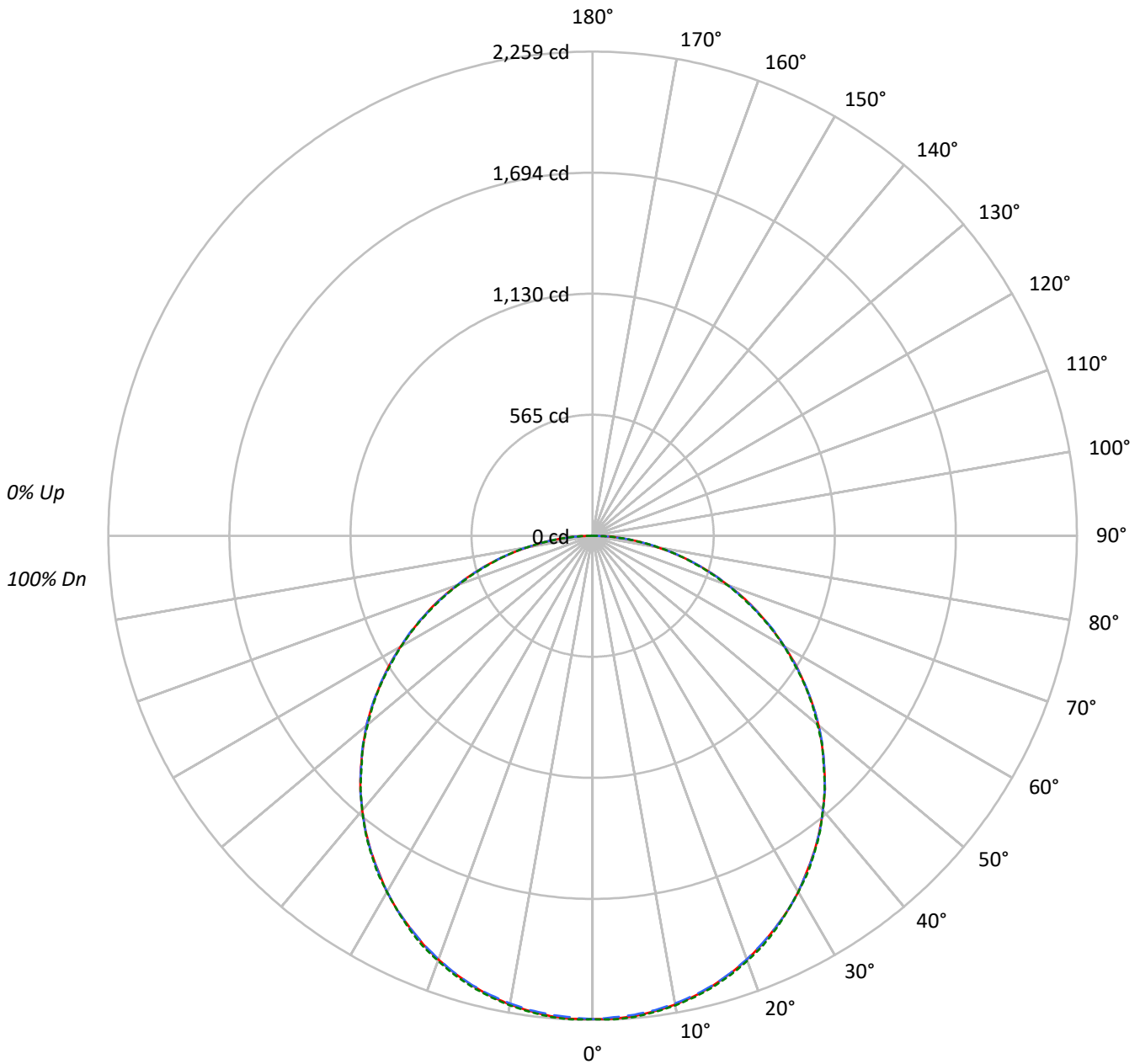
Test Method: LM-79-08  
Report Number: P568309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CGTX-70HE-L850  
Description: 1X4 7000 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: 6668.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 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): 52.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	6070	6070	6070
5°	6077	6059	6086
10°	6067	6054	6079
15°	6051	6046	6069
20°	6026	6021	6043
25°	5990	5990	6010
30°	5962	5960	5962
35°	5917	5919	5928
40°	5872	5872	5872
45°	5818	5815	5799
50°	5763	5763	5728
55°	5663	5679	5655
60°	5562	5562	5548
65°	5442	5436	5404
70°	5264	5291	5232
75°	5099	5107	5037
80°	4737	4816	4816
85°	4462	4409	4332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.7	3.2
10°-20°	613.5	9.2
20°-30°	931.4	14.0
30°-40°	1127.8	16.9
40°-50°	1179.8	17.7
50°-60°	1080.6	16.2
60°-70°	845.1	12.7
70°-80°	516.8	7.8
80°-90°	159.2	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°	1758.6	26.4
0°-40°	2886.5	43.3
0°-60°	5146.9	77.2
0°-90°	6668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6668.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2250	2250	2243	2250	2253	214
15°	2172	2174	2170	2176	2179	613
25°	2017	2022	2017	2022	2024	931
35°	1801	1802	1802	1804	1804	1127
45°	1529	1531	1528	1528	1524	1179
55°	1207	1216	1210	1207	1205	1081
65°	855	859	854	850	849	846
75°	490	488	491	488	484	517
85°	144	140	143	140	140	160
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2255.5	2255.5	2255.5	2255.5	2255.5
2.5°	2255.5	2255.5	2248.8	2257.2	2258.8
5°	2249.7	2249.7	2243.0	2250.5	2253.0
7.5°	2237.1	2238.0	2232.1	2239.6	2240.5
10°	2220.4	2221.3	2215.4	2223.8	2224.6
12.5°	2199.5	2200.4	2195.4	2202.9	2203.7
15°	2172.0	2173.6	2170.3	2176.1	2178.6
17.5°	2140.2	2142.7	2138.6	2146.1	2146.9
20°	2104.3	2105.1	2102.6	2108.5	2110.1
22.5°	2063.4	2065.9	2061.7	2069.2	2071.7
25°	2017.4	2021.6	2017.4	2022.4	2024.1
27.5°	1970.6	1974.0	1970.6	1973.1	1971.5
30°	1918.8	1919.7	1918.0	1918.8	1918.8
32.5°	1858.7	1862.0	1860.4	1864.5	1866.2
35°	1801.1	1801.9	1801.9	1804.4	1804.4
37.5°	1738.4	1738.4	1739.2	1741.7	1741.7
40°	1671.6	1673.2	1671.6	1673.2	1671.6
42.5°	1603.9	1603.1	1603.9	1604.7	1602.2
45°	1528.7	1531.2	1527.9	1527.9	1523.7
47.5°	1451.0	1456.1	1455.2	1452.7	1453.5
50°	1376.7	1378.4	1376.7	1374.2	1368.3
52.5°	1294.0	1299.0	1294.8	1295.7	1289.0
55°	1207.1	1215.5	1210.5	1207.1	1205.4
57.5°	1124.4	1126.9	1121.9	1117.7	1115.2
60°	1033.4	1036.7	1033.4	1030.0	1030.8
62.5°	944.0	949.0	949.8	943.1	941.5
65°	854.6	858.8	853.7	850.4	848.7
67.5°	767.7	766.9	762.7	758.5	756.8
70°	669.1	675.0	672.5	673.3	665.0
72.5°	581.4	582.3	579.7	579.7	573.1
75°	490.4	487.9	491.2	487.9	484.5
77.5°	400.1	402.6	401.8	397.6	401.0
80°	305.7	309.1	310.8	307.4	310.8
82.5°	226.4	226.4	225.6	225.6	223.0
85°	144.5	139.5	142.8	139.5	140.3
87.5°	66.0	65.2	61.8	64.3	63.5
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)