

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: P568310

Luminaire Tested: **14CGTX-80HE-L850**

Issue Date: 9/19/2022

**Test Information**

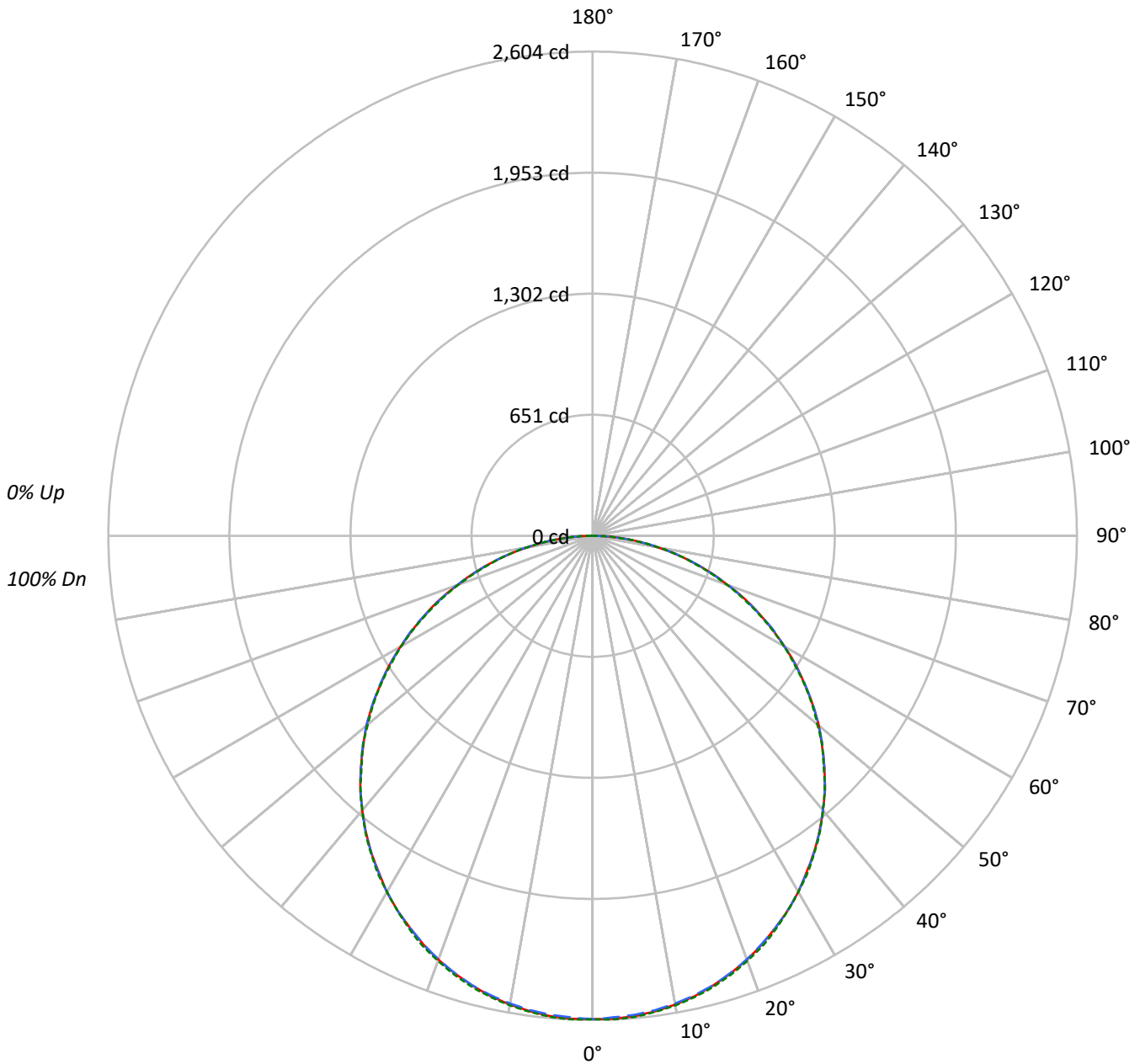
Test Method: LM-79-08  
Report Number: P568310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CGTX-80HE-L850  
Description: 1X4 8000 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: 7687.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 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): 63.3  
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				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°	6997	6997	6997
5°	7005	6985	7016
10°	6994	6979	7008
15°	6976	6970	6997
20°	6947	6942	6966
25°	6905	6905	6928
30°	6874	6870	6874
35°	6821	6824	6833
40°	6769	6769	6769
45°	6707	6703	6685
50°	6644	6644	6604
55°	6529	6547	6520
60°	6412	6412	6396
65°	6273	6267	6230
70°	6069	6099	6032
75°	5878	5888	5808
80°	5463	5551	5551
85°	5144	5085	4996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.4	3.2
10°-20°	707.2	9.2
20°-30°	1073.8	14.0
30°-40°	1300.2	16.9
40°-50°	1360.1	17.7
50°-60°	1245.7	16.2
60°-70°	974.3	12.7
70°-80°	595.8	7.8
80°-90°	183.5	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°	2027.4	26.4
0°-40°	3327.6	43.3
0°-60°	5933.4	77.2
0°-90°	7687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2600	2600	2600	2600	2600	
5°	2593	2593	2586	2594	2597	246
15°	2504	2506	2502	2509	2512	707
25°	2326	2330	2326	2332	2333	1073
35°	2076	2077	2077	2080	2080	1299
45°	1762	1765	1761	1761	1757	1360
55°	1392	1401	1395	1392	1390	1246
65°	985	990	984	980	978	975
75°	565	562	566	562	559	596
85°	167	161	165	161	162	185
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2600.2	2600.2	2592.5	2602.1	2604.0
5°	2593.4	2593.4	2585.7	2594.4	2597.3
7.5°	2579.0	2580.0	2573.2	2581.9	2582.9
10°	2559.7	2560.7	2554.0	2563.6	2564.6
12.5°	2535.7	2536.6	2530.8	2539.5	2540.5
15°	2503.9	2505.8	2502.0	2508.7	2511.6
17.5°	2467.3	2470.2	2465.4	2474.0	2475.0
20°	2425.9	2426.8	2424.0	2430.7	2432.6
22.5°	2378.7	2381.6	2376.8	2385.4	2388.3
25°	2325.7	2330.5	2325.7	2331.5	2333.4
27.5°	2271.8	2275.6	2271.8	2274.7	2272.8
30°	2212.1	2213.0	2211.1	2212.1	2212.1
32.5°	2142.7	2146.6	2144.7	2149.5	2151.4
35°	2076.3	2077.3	2077.3	2080.1	2080.1
37.5°	2004.1	2004.1	2005.0	2007.9	2007.9
40°	1927.0	1929.0	1927.0	1929.0	1927.0
42.5°	1849.0	1848.1	1849.0	1850.0	1847.1
45°	1762.3	1765.2	1761.4	1761.4	1756.6
47.5°	1672.8	1678.6	1677.6	1674.7	1675.7
50°	1587.1	1589.0	1587.1	1584.2	1577.4
52.5°	1491.7	1497.5	1492.7	1493.7	1486.0
55°	1391.6	1401.2	1395.4	1391.6	1389.7
57.5°	1296.2	1299.1	1293.4	1288.5	1285.6
60°	1191.3	1195.1	1191.3	1187.4	1188.4
62.5°	1088.2	1094.0	1095.0	1087.3	1085.3
65°	985.2	990.0	984.2	980.4	978.4
67.5°	885.0	884.1	879.2	874.4	872.5
70°	771.4	778.1	775.2	776.2	766.6
72.5°	670.3	671.2	668.3	668.3	660.6
75°	565.3	562.4	566.3	562.4	558.6
77.5°	461.3	464.2	463.2	458.4	462.3
80°	352.5	356.3	358.2	354.4	358.2
82.5°	261.0	261.0	260.0	260.0	257.1
85°	166.6	160.8	164.7	160.8	161.8
87.5°	76.1	75.1	71.3	74.2	73.2
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)