

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1526783

Luminaire Tested: 14CGTX-80HE-A125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-80HE-A125-L850
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

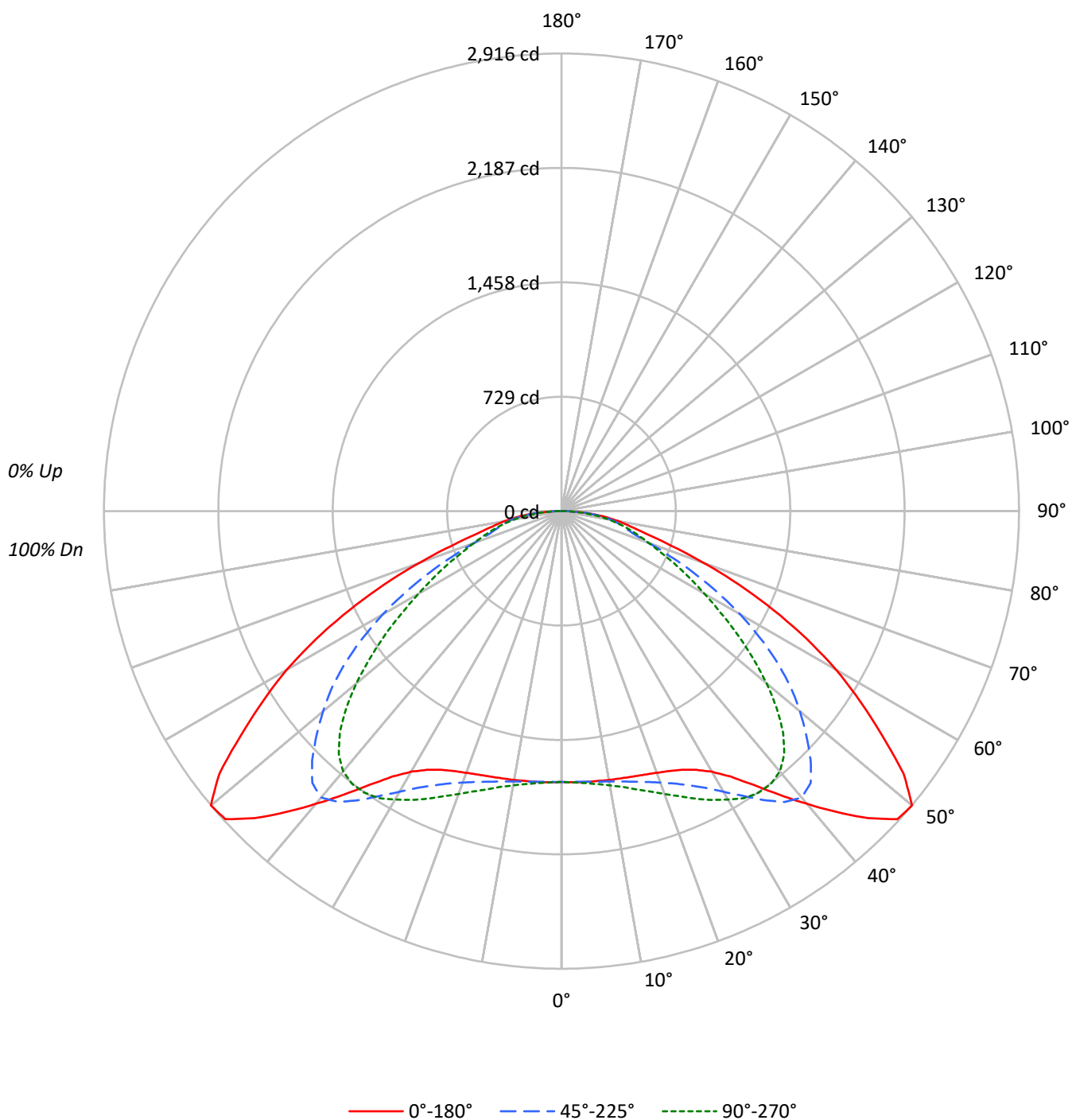
Lumens per Lamp: N/A
Luminaire Lumens: 8083.5 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.9
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 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				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		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	105	101	97	93	97	93	90		93	90	87		89	87	85		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70		68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58		56
4	80	68	58	51	78	66	58	51	64	56	50		61	55	50		59	54	49		47
5	73	60	50	43	71	59	50	43	56	49	43		54	48	42		53	46	42		39
6	67	53	44	37	65	52	43	37	50	42	36		49	42	36		47	41	36		34
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31		29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27		25
9	53	39	31	25	52	39	30	25	37	30	24		36	29	24		35	29	24		22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		32	26	22		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4644	4644	4644
5°	4679	4673	4699
10°	4753	4779	4848
15°	4878	4972	5112
20°	5081	5270	5490
25°	5399	5723	6001
30°	5957	6413	6593
35°	6984	7381	7194
40°	8548	8368	7605
45°	10527	8550	7603
50°	12210	8303	7142
55°	11713	7871	6423
60°	10882	7063	5656
65°	9479	5916	5067
70°	7583	4651	4651
75°	5818	4409	4617
80°	5711	5092	4702
85°	5737	5641	4604

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 12210 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.1
10°-20°	509.5	6.3
20°-30°	896.8	11.1
30°-40°	1389.1	17.2
40°-50°	1769.7	21.9
50°-60°	1610.1	19.9
60°-70°	1044.2	12.9
70°-80°	507.9	6.3
80°-90°	190.3	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°	1572.3	19.5
0°-40°	2961.5	36.6
0°-60°	6341.2	78.4
0°-90°	8083.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8083.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1732	1734	1730	1733	1740	166
15°	1751	1763	1785	1818	1835	497
25°	1818	1856	1928	1996	2021	848
35°	2126	2218	2247	2210	2190	1354
45°	2766	2596	2247	2050	1998	2125
55°	2496	2190	1678	1446	1369	2229
65°	1489	1319	929	805	796	1474
75°	560	512	424	404	444	634
85°	186	203	183	167	149	202
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1729.1	1731.2	1725.9	1727.0	1730.1
5°	1732.2	1734.3	1730.1	1733.3	1739.6
7.5°	1734.3	1738.5	1738.5	1745.9	1754.3
10°	1739.6	1743.8	1749.0	1763.7	1774.2
12.5°	1743.8	1751.1	1763.7	1787.9	1799.4
15°	1751.1	1762.7	1784.7	1818.3	1835.1
17.5°	1760.6	1777.4	1808.9	1853.0	1872.9
20°	1774.2	1796.3	1840.4	1892.9	1917.0
22.5°	1792.1	1821.5	1878.2	1940.1	1966.4
25°	1818.3	1856.1	1927.5	1995.8	2021.0
27.5°	1858.2	1905.5	1987.4	2055.6	2074.5
30°	1917.0	1975.8	2064.0	2111.2	2121.7
32.5°	2004.2	2079.7	2150.1	2165.8	2167.9
35°	2125.9	2218.3	2246.7	2209.9	2190.0
37.5°	2275.0	2377.9	2335.9	2226.7	2191.0
40°	2433.5	2517.5	2382.1	2213.1	2164.8
42.5°	2601.5	2597.3	2350.6	2153.2	2100.7
45°	2766.3	2596.3	2246.7	2050.3	1997.9
47.5°	2904.9	2517.5	2117.5	1923.3	1861.4
50°	2916.5	2414.6	1983.2	1769.0	1706.0
52.5°	2748.5	2312.8	1841.4	1609.4	1537.0
55°	2496.5	2190.0	1677.7	1445.6	1369.0
57.5°	2258.2	2029.4	1499.2	1276.6	1201.0
60°	2022.0	1822.5	1312.3	1112.8	1050.9
62.5°	1760.6	1582.1	1121.2	950.1	917.6
65°	1488.7	1318.6	929.1	805.2	795.8
67.5°	1225.2	1068.7	745.4	668.8	680.3
70°	963.8	844.1	591.1	573.2	591.1
72.5°	732.8	665.6	480.8	485.0	514.4
75°	559.6	512.3	424.1	404.2	444.1
77.5°	448.3	417.8	375.8	346.4	375.8
80°	368.5	361.1	328.6	294.0	303.4
82.5°	278.2	283.5	258.3	240.4	228.9
85°	185.8	202.6	182.7	166.9	149.1
87.5°	93.4	113.4	96.6	86.1	76.6
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	21.7	23.4	22.1	23.7	24.0	18.2	20.0	18.6	20.3	20.6
	3H	23.0	24.5	23.4	24.9	25.2	19.5	21.1	19.9	21.4	21.8
	4H	23.3	24.8	23.7	25.2	25.5	20.1	21.6	20.5	21.9	22.3
	6H	23.6	25.0	24.0	25.4	25.8	20.6	22.0	21.1	22.4	22.8
	8H	23.8	25.1	24.2	25.5	25.9	20.9	22.2	21.3	22.6	23.0
	12H	23.9	25.1	24.3	25.5	25.9	21.0	22.3	21.5	22.7	23.1
4H	2H	21.9	23.3	22.3	23.7	24.0	18.9	20.4	19.3	20.7	21.1
	3H	23.3	24.6	23.7	24.9	25.3	20.4	21.6	20.8	22.0	22.4
	4H	23.8	24.9	24.2	25.3	25.8	21.0	22.1	21.5	22.6	23.0
	6H	24.2	25.2	24.7	25.7	26.1	21.7	22.7	22.2	23.1	23.6
	8H	24.5	25.4	24.9	25.8	26.3	22.0	22.9	22.5	23.4	23.8
	12H	24.6	25.5	25.1	25.9	26.4	22.3	23.1	22.7	23.6	24.0
8H	4H	23.9	24.8	24.4	25.3	25.7	21.4	22.3	21.8	22.7	23.2
	6H	24.5	25.2	25.0	25.7	26.2	22.2	23.0	22.7	23.5	23.9
	8H	24.8	25.5	25.3	26.0	26.5	22.6	23.3	23.1	23.8	24.3
	12H	25.1	25.7	25.6	26.2	26.7	23.0	23.6	23.5	24.1	24.6
12H	4H	23.9	24.7	24.4	25.2	25.7	21.4	22.3	21.9	22.7	23.2
	6H	24.5	25.2	25.0	25.7	26.2	22.3	23.0	22.9	23.5	24.0
	8H	24.9	25.5	25.4	26.0	26.5	22.8	23.4	23.3	23.9	24.5















(END OF REPORT)