

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: P1526780

Luminaire Tested: 14CGTX-80HE-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526780
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-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

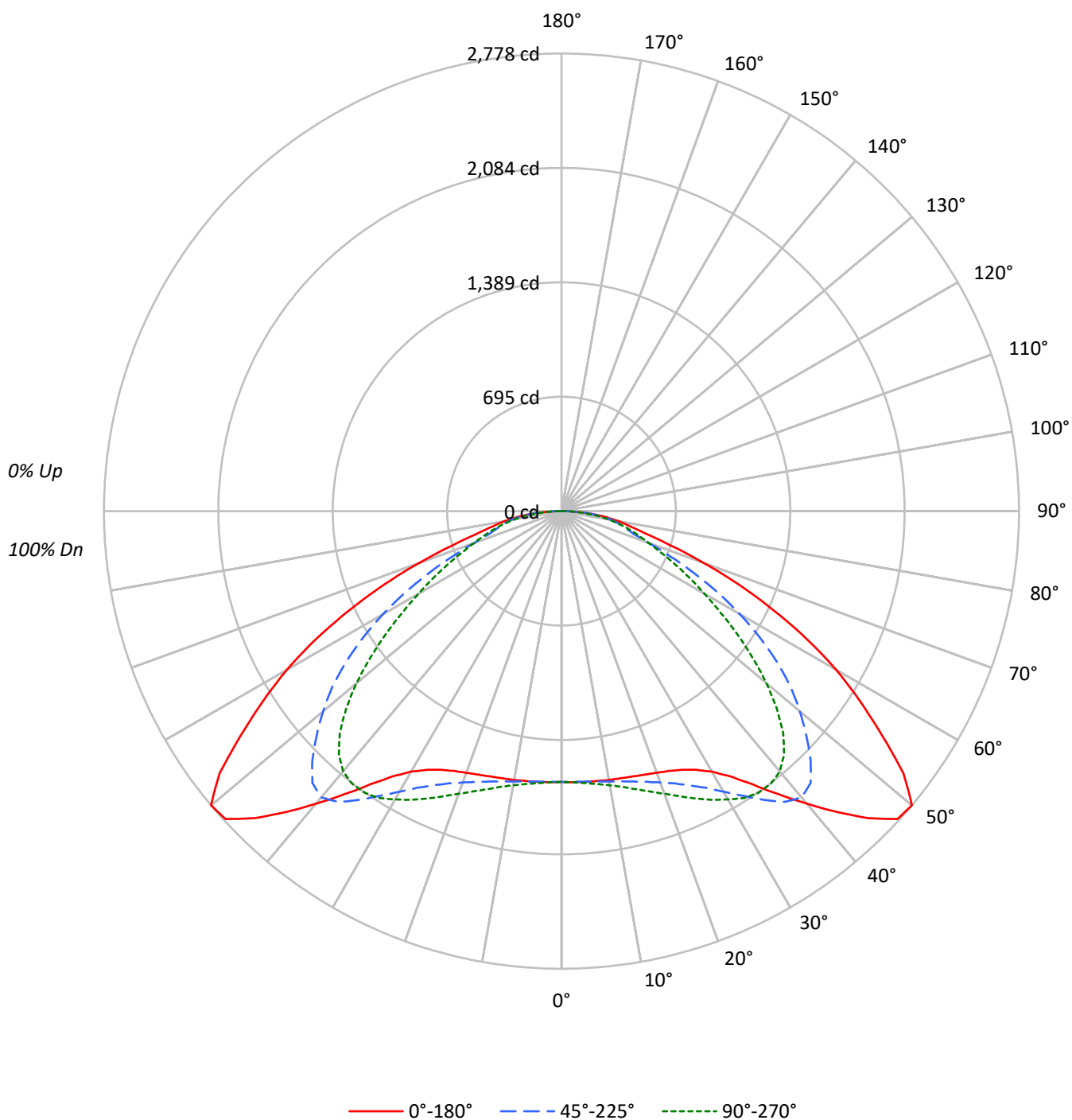
Lumens per Lamp: N/A
Luminaire Lumens: 7698.6 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 2.23 / 1.81 / 1.81
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	4423	4423	4423
5°	4457	4451	4475
10°	4527	4552	4617
15°	4646	4735	4869
20°	4839	5019	5228
25°	5142	5450	5715
30°	5673	6108	6279
35°	6651	7029	6852
40°	8142	7970	7242
45°	10026	8143	7241
50°	11628	7907	6802
55°	11155	7496	6117
60°	10364	6726	5387
65°	9028	5635	4826
70°	7222	4429	4429
75°	5541	4199	4397
80°	5438	4850	4479
85°	5465	5372	4384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 11628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.1
10°-20°	485.2	6.3
20°-30°	854.0	11.1
30°-40°	1323.0	17.2
40°-50°	1685.4	21.9
50°-60°	1533.4	19.9
60°-70°	994.4	12.9
70°-80°	483.7	6.3
80°-90°	181.2	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°	1497.5	19.5
0°-40°	2820.4	36.6
0°-60°	6039.3	78.4
0°-90°	7698.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7698.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1650	1652	1648	1651	1657	158
15°	1668	1679	1700	1732	1748	474
25°	1732	1768	1836	1901	1925	808
35°	2025	2113	2140	2105	2086	1290
45°	2635	2473	2140	1953	1903	2024
55°	2378	2086	1598	1377	1304	2123
65°	1418	1256	885	767	758	1404
75°	533	488	404	385	423	604
85°	177	193	174	159	142	192
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.8	1643.8	1643.8	1643.8	1643.8
2.5°	1646.8	1648.8	1643.8	1644.8	1647.8
5°	1649.8	1651.8	1647.8	1650.8	1656.8
7.5°	1651.8	1655.8	1655.8	1662.8	1670.8
10°	1656.8	1660.8	1665.8	1679.8	1689.8
12.5°	1660.8	1667.8	1679.8	1702.7	1713.7
15°	1667.8	1678.8	1699.7	1731.7	1747.7
17.5°	1676.8	1692.8	1722.7	1764.7	1783.7
20°	1689.8	1710.7	1752.7	1802.7	1825.7
22.5°	1706.7	1734.7	1788.7	1847.7	1872.7
25°	1731.7	1767.7	1835.7	1900.7	1924.7
27.5°	1769.7	1814.7	1892.7	1957.7	1975.7
30°	1825.7	1881.7	1965.7	2010.7	2020.7
32.5°	1908.7	1980.7	2047.7	2062.7	2064.7
35°	2024.7	2112.7	2139.7	2104.7	2085.7
37.5°	2166.7	2264.7	2224.7	2120.7	2086.7
40°	2317.7	2397.6	2268.7	2107.7	2061.7
42.5°	2477.6	2473.6	2238.7	2050.7	2000.7
45°	2634.6	2472.6	2139.7	1952.7	1902.7
47.5°	2766.6	2397.6	2016.7	1831.7	1772.7
50°	2777.6	2299.7	1888.7	1684.8	1624.8
52.5°	2617.6	2202.7	1753.7	1532.8	1463.8
55°	2377.6	2085.7	1597.8	1376.8	1303.8
57.5°	2150.7	1932.7	1427.8	1215.8	1143.8
60°	1925.7	1735.7	1249.8	1059.8	1000.9
62.5°	1676.8	1506.8	1067.8	904.9	873.9
65°	1417.8	1255.8	884.9	766.9	757.9
67.5°	1166.8	1017.8	709.9	636.9	647.9
70°	917.9	803.9	562.9	545.9	562.9
72.5°	697.9	633.9	457.9	461.9	489.9
75°	532.9	487.9	403.9	384.9	422.9
77.5°	426.9	397.9	357.9	330.0	357.9
80°	350.9	343.9	313.0	280.0	289.0
82.5°	265.0	270.0	246.0	229.0	218.0
85°	177.0	193.0	174.0	159.0	142.0
87.5°	89.0	108.0	92.0	82.0	73.0
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	21.5	23.3	21.9	23.6	23.9	18.1	19.8	18.4	20.1	20.4
	3H	22.8	24.4	23.2	24.7	25.1	19.4	20.9	19.7	21.2	21.6
	4H	23.2	24.6	23.6	25.0	25.4	19.9	21.4	20.3	21.7	22.1
	6H	23.5	24.8	23.9	25.2	25.6	20.5	21.8	20.9	22.2	22.6
	8H	23.6	24.9	24.0	25.3	25.7	20.7	22.0	21.1	22.4	22.8
	12H	23.7	25.0	24.1	25.3	25.8	20.9	22.1	21.3	22.5	22.9
4H	2H	21.7	23.2	22.1	23.5	23.9	18.7	20.2	19.1	20.6	20.9
	3H	23.1	24.4	23.6	24.8	25.2	20.2	21.4	20.6	21.8	22.2
	4H	23.6	24.7	24.1	25.2	25.6	20.9	22.0	21.3	22.4	22.8
	6H	24.1	25.1	24.5	25.5	25.9	21.5	22.5	22.0	23.0	23.4
	8H	24.3	25.2	24.7	25.6	26.1	21.8	22.8	22.3	23.2	23.7
	12H	24.5	25.3	24.9	25.8	26.2	22.1	22.9	22.6	23.4	23.9
8H	4H	23.7	24.6	24.2	25.1	25.5	21.2	22.1	21.7	22.6	23.0
	6H	24.3	25.1	24.8	25.6	26.0	22.0	22.8	22.5	23.3	23.8
	8H	24.6	25.3	25.1	25.8	26.3	22.5	23.1	23.0	23.6	24.1
	12H	24.9	25.5	25.4	26.0	26.6	22.8	23.4	23.3	23.9	24.5
12H	4H	23.7	24.6	24.2	25.0	25.5	21.3	22.1	21.8	22.6	23.0
	6H	24.4	25.1	24.9	25.5	26.0	22.2	22.9	22.7	23.3	23.9
	8H	24.7	25.3	25.2	25.8	26.4	22.6	23.3	23.2	23.7	24.3













(END OF REPORT)