

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: P1527163

Luminaire Tested: 24CGTX-80HE-F125-L930

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-80HE-F125-L930
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

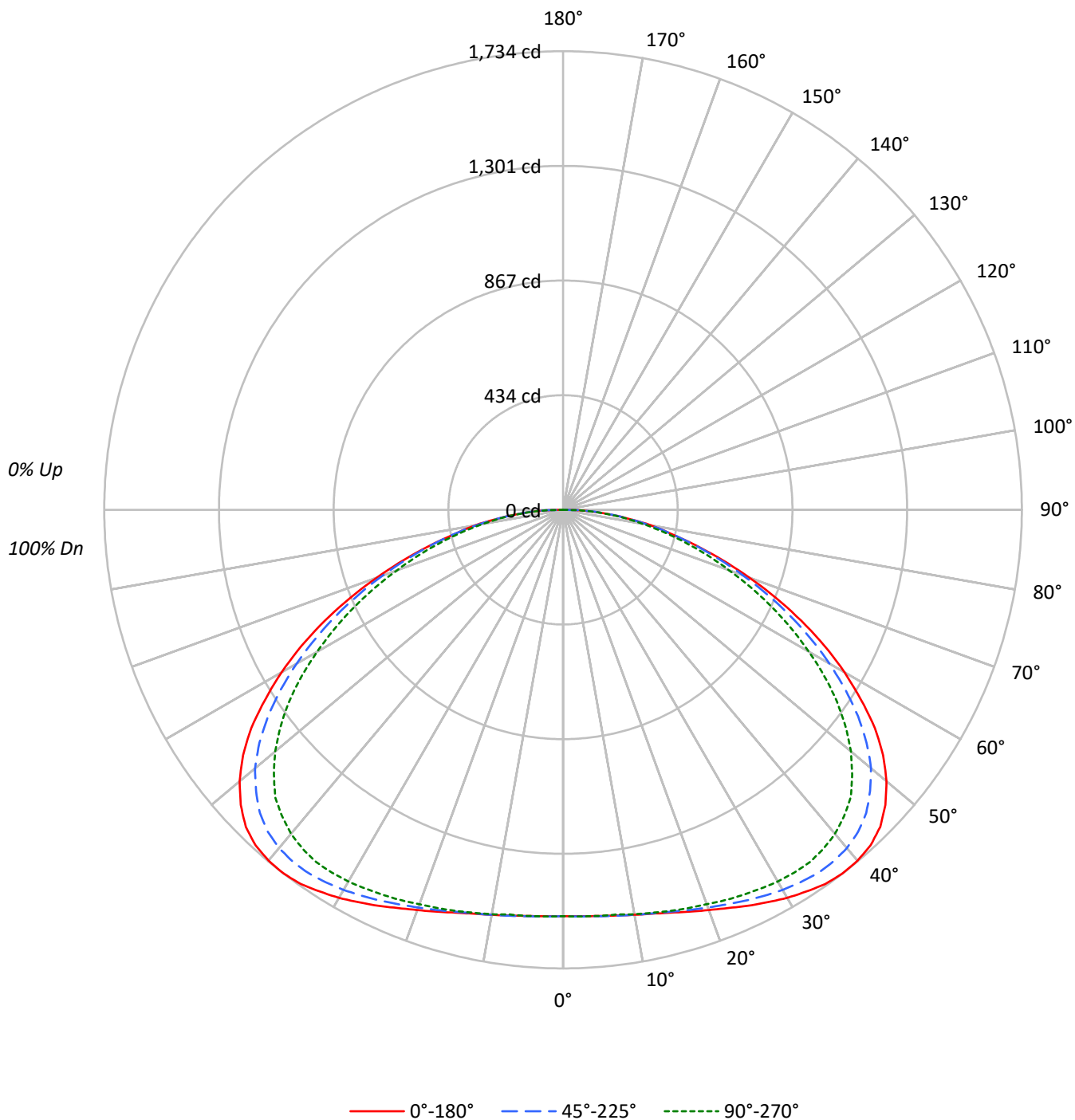
Lumens per Lamp: N/A
Luminaire Lumens: 6498.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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	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	102	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82			
2	97	88	81	74	94	86	79	74	83	77	72	79	74	70	76	72	69	66			
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	54			
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45			
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39			
6	67	53	43	36	65	52	43	36	50	42	36	48	41	36	47	40	35	33			
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29			
8	57	43	34	28	56	42	34	28	41	33	28	40	33	27	38	32	27	25			
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22			
10	50	36	28	22	48	35	27	22	34	27	22	33	27	22	33	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2067	2067	2067
5°	2082	2083	2082
10°	2124	2124	2121
15°	2196	2191	2186
20°	2306	2291	2272
25°	2453	2421	2386
30°	2632	2577	2521
35°	2837	2755	2671
40°	3041	2932	2808
45°	3226	3084	2926
50°	3340	3181	2972
55°	3376	3193	2964
60°	3306	3129	2888
65°	3164	3012	2774
70°	2947	2849	2626
75°	2698	2680	2486
80°	2617	2564	2380
85°	2431	2536	2379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	2.3
10°-20°	447.0	6.9
20°-30°	755.0	11.6
30°-40°	1050.2	16.2
40°-50°	1243.2	19.1
50°-60°	1206.2	18.6
60°-70°	929.3	14.3
70°-80°	542.3	8.3
80°-90°	177.2	2.7
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°	1349.6	20.8
0°-40°	2399.8	36.9
0°-60°	4849.2	74.6
0°-90°	6498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1541	1542	1542	1542	1541	148
15°	1576	1576	1573	1570	1570	448
25°	1652	1645	1631	1614	1607	766
35°	1727	1712	1677	1642	1626	1082
45°	1695	1673	1620	1565	1538	1302
55°	1439	1414	1361	1298	1264	1278
65°	994	982	946	898	871	982
75°	519	532	516	492	478	556
85°	158	165	164	161	154	176
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.6	1536.6	1536.6	1536.6	1536.6
2.5°	1537.8	1538.9	1538.9	1538.9	1538.9
5°	1541.2	1542.3	1542.3	1542.3	1541.2
7.5°	1546.8	1546.8	1548.0	1546.8	1543.4
10°	1554.8	1554.8	1554.8	1553.6	1552.5
12.5°	1563.8	1565.0	1562.7	1561.6	1560.4
15°	1576.3	1576.3	1572.9	1569.5	1569.5
17.5°	1593.3	1591.0	1586.5	1580.8	1578.6
20°	1610.3	1608.0	1600.1	1591.0	1586.5
22.5°	1629.5	1625.0	1614.8	1602.3	1597.8
25°	1652.2	1645.4	1630.7	1613.7	1606.9
27.5°	1672.6	1663.5	1645.4	1626.1	1614.8
30°	1694.1	1682.8	1659.0	1634.1	1622.7
32.5°	1711.1	1699.8	1669.2	1640.9	1626.1
35°	1727.0	1712.3	1677.1	1642.0	1626.1
37.5°	1733.8	1717.9	1677.1	1636.3	1615.9
40°	1731.5	1714.5	1669.2	1622.7	1598.9
42.5°	1720.2	1699.8	1651.1	1598.9	1571.8
45°	1695.3	1672.6	1620.5	1565.0	1537.8
47.5°	1652.2	1629.5	1574.0	1515.1	1482.2
50°	1595.6	1571.8	1519.6	1453.9	1419.9
52.5°	1524.2	1500.4	1446.0	1379.1	1346.2
55°	1439.2	1414.2	1361.0	1297.5	1263.5
57.5°	1334.9	1316.8	1264.7	1204.6	1171.7
60°	1228.4	1210.3	1162.7	1106.0	1073.1
62.5°	1113.9	1099.2	1056.1	1002.9	974.6
65°	993.8	982.5	946.2	897.5	871.4
67.5°	871.4	866.9	834.0	792.1	769.4
70°	749.0	751.3	724.1	686.7	667.5
72.5°	630.1	638.0	616.5	585.9	572.3
75°	519.0	531.5	515.6	491.8	478.2
77.5°	415.9	432.9	419.3	401.2	389.8
80°	337.7	336.6	330.9	317.3	307.1
82.5°	242.5	247.0	243.6	235.7	230.0
85°	157.5	165.4	164.3	160.9	154.1
87.5°	78.2	87.3	88.4	86.1	82.7
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	16.9	18.7	17.3	19.0	19.3	16.2	18.0	16.6	18.3	18.6
	3H	18.7	20.3	19.1	20.6	21.0	18.0	19.6	18.4	19.9	20.3
	4H	19.4	20.9	19.8	21.2	21.6	18.7	20.2	19.1	20.6	20.9
	6H	19.9	21.3	20.3	21.7	22.1	19.3	20.7	19.7	21.0	21.4
	8H	20.1	21.4	20.5	21.8	22.2	19.5	20.8	19.9	21.2	21.6
	12H	20.3	21.5	20.7	21.9	22.3	19.6	20.9	20.1	21.3	21.7
4H	2H	17.5	19.0	17.9	19.3	19.7	17.0	18.5	17.4	18.8	19.2
	3H	19.6	20.8	20.0	21.2	21.6	19.0	20.3	19.4	20.6	21.0
	4H	20.4	21.5	20.8	21.9	22.4	19.8	21.0	20.2	21.4	21.8
	6H	21.1	22.1	21.5	22.5	22.9	20.5	21.5	20.9	21.9	22.4
	8H	21.3	22.3	21.8	22.7	23.2	20.8	21.7	21.2	22.1	22.6
	12H	21.5	22.4	22.0	22.8	23.3	21.0	21.8	21.5	22.3	22.8
8H	4H	20.7	21.6	21.2	22.1	22.5	20.2	21.1	20.7	21.6	22.0
	6H	21.5	22.3	22.0	22.8	23.3	21.0	21.8	21.5	22.3	22.8
	8H	21.9	22.6	22.4	23.1	23.6	21.4	22.1	21.9	22.6	23.1
	12H	22.2	22.8	22.7	23.3	23.8	21.7	22.3	22.2	22.8	23.4
12H	4H	20.7	21.6	21.2	22.1	22.5	20.3	21.1	20.7	21.6	22.0
	6H	21.6	22.3	22.1	22.8	23.3	21.1	21.8	21.7	22.3	22.8
	8H	22.0	22.6	22.5	23.1	23.7	21.5	22.2	22.0	22.7	23.2













(END OF REPORT)