

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: P1527000

Luminaire Tested: 14CGTX-80HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-80HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

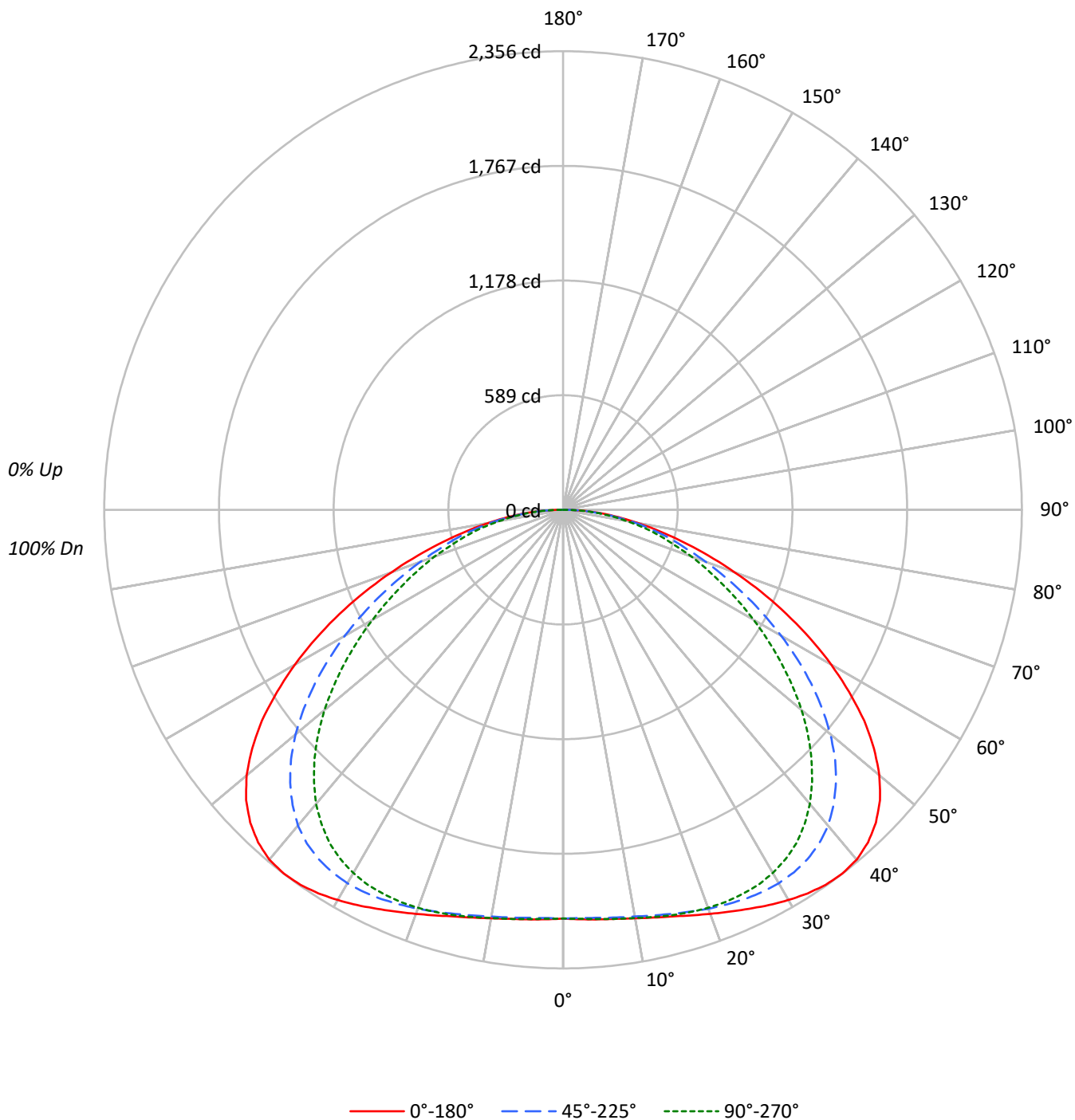
Lumens per Lamp: N/A
Luminaire Lumens: 8045.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82						
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68						
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56						
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47						
5	74	61	51	44	72	59	51	44	57	50	44	55	48	43	53	47	43	40						
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35						
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30						
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	34	29	27						
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24						
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5649	5649	5649
5°	5705	5682	5699
10°	5822	5797	5817
15°	6024	5986	6006
20°	6324	6246	6231
25°	6713	6551	6467
30°	7192	6882	6693
35°	7724	7193	6865
40°	8241	7437	6928
45°	8644	7542	6867
50°	8876	7501	6692
55°	8854	7294	6412
60°	8558	6960	6078
65°	8060	6537	5748
70°	7375	6120	5525
75°	6635	5893	5337
80°	6067	5726	5156
85°	5832	5477	5153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 8895 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	2.5
10°-20°	611.7	7.6
20°-30°	1023.7	12.7
30°-40°	1379.3	17.1
40°-50°	1547.2	19.2
50°-60°	1419.7	17.6
60°-70°	1050.0	13.1
70°-80°	610.9	7.6
80°-90°	200.8	2.5
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°	1837.2	22.8
0°-40°	3216.5	40.0
0°-60°	6183.3	76.9
0°-90°	8045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2112	2111	2104	2105	2110	202
15°	2162	2158	2149	2151	2156	615
25°	2261	2244	2206	2182	2178	1048
35°	2351	2302	2190	2113	2090	1473
45°	2272	2185	1982	1847	1804	1746
55°	1887	1779	1555	1410	1367	1677
65°	1266	1189	1027	933	903	1252
75°	638	630	567	522	513	684
85°	189	194	177	180	167	207
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.3	2099.3	2099.3	2099.3	2099.3
2.5°	2105.6	2105.6	2098.3	2100.4	2102.5
5°	2111.9	2110.9	2103.5	2104.6	2109.8
7.5°	2119.3	2119.3	2111.9	2111.9	2119.3
10°	2130.8	2128.7	2121.4	2123.5	2128.7
12.5°	2145.5	2141.3	2134.0	2136.1	2142.4
15°	2162.3	2158.1	2148.7	2150.8	2156.0
17.5°	2184.4	2178.1	2164.4	2164.4	2167.6
20°	2208.5	2198.0	2181.2	2172.8	2176.0
22.5°	2234.7	2221.1	2193.8	2179.1	2180.2
25°	2261.0	2244.2	2206.4	2182.3	2178.1
27.5°	2289.3	2265.2	2213.7	2180.2	2171.8
30°	2314.5	2284.1	2214.8	2168.6	2153.9
32.5°	2336.6	2296.7	2207.5	2146.6	2127.7
35°	2351.3	2301.9	2189.6	2113.0	2089.9
37.5°	2355.5	2295.6	2160.2	2066.8	2036.4
40°	2346.0	2275.7	2117.2	2005.9	1972.3
42.5°	2317.7	2240.0	2056.3	1932.4	1892.6
45°	2271.5	2185.4	1981.8	1847.4	1804.4
47.5°	2207.5	2109.8	1894.7	1749.8	1704.7
50°	2120.3	2017.5	1791.8	1643.8	1598.6
52.5°	2012.2	1905.1	1677.4	1531.5	1483.2
55°	1887.3	1779.2	1554.6	1409.7	1366.7
57.5°	1741.4	1641.7	1425.4	1287.9	1247.0
60°	1590.2	1495.8	1293.2	1166.2	1129.4
62.5°	1430.7	1344.6	1159.9	1045.5	1014.0
65°	1265.9	1189.3	1026.6	933.2	902.7
67.5°	1101.1	1042.3	899.6	816.6	799.8
70°	937.4	893.3	777.8	723.2	702.2
72.5°	782.0	758.9	662.3	625.6	597.3
75°	638.2	629.8	566.8	521.7	513.3
77.5°	508.0	520.6	466.1	433.5	426.2
80°	391.5	404.1	369.5	342.2	332.7
82.5°	285.5	302.3	267.7	261.4	251.9
85°	188.9	194.2	177.4	179.5	166.9
87.5°	92.4	102.9	93.4	96.6	90.3
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	20.2	21.9	20.6	22.2	22.5	18.4	20.1	18.8	20.4	20.7
	3H	22.0	23.5	22.3	23.8	24.2	20.1	21.7	20.5	22.0	22.4
	4H	22.6	24.1	23.0	24.4	24.8	20.8	22.3	21.2	22.6	23.0
	6H	23.1	24.4	23.5	24.8	25.2	21.4	22.8	21.8	23.1	23.5
	8H	23.3	24.6	23.7	24.9	25.3	21.6	22.9	22.1	23.3	23.7
	12H	23.4	24.6	23.8	25.0	25.4	21.8	23.0	22.2	23.4	23.8
4H	2H	20.6	22.1	21.0	22.4	22.8	19.2	20.6	19.6	21.0	21.4
	3H	22.6	23.8	23.0	24.2	24.6	21.1	22.3	21.5	22.7	23.1
	4H	23.4	24.5	23.9	24.9	25.4	21.9	23.0	22.4	23.5	23.9
	6H	24.1	25.1	24.5	25.5	25.9	22.6	23.6	23.1	24.1	24.5
	8H	24.3	25.2	24.8	25.7	26.1	22.9	23.8	23.4	24.3	24.7
	12H	24.5	25.3	25.0	25.8	26.3	23.2	24.0	23.6	24.5	24.9
8H	4H	23.7	24.6	24.1	25.0	25.5	22.4	23.3	22.8	23.7	24.2
	6H	24.5	25.2	25.0	25.7	26.2	23.2	24.0	23.7	24.5	24.9
	8H	24.8	25.5	25.3	26.0	26.5	23.6	24.3	24.1	24.8	25.3
	12H	25.1	25.7	25.6	26.2	26.8	23.9	24.5	24.4	25.0	25.6
12H	4H	23.7	24.5	24.2	25.0	25.5	22.4	23.3	22.9	23.7	24.2
	6H	24.5	25.2	25.1	25.7	26.2	23.3	24.0	23.9	24.5	25.0
	8H	24.9	25.5	25.4	26.0	26.6	23.8	24.4	24.3	24.9	25.4















(END OF REPORT)