

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: P476321

Luminaire Tested: **14GR-LD5-60-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476321  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-60-A125-UNV-L830-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5954.8 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

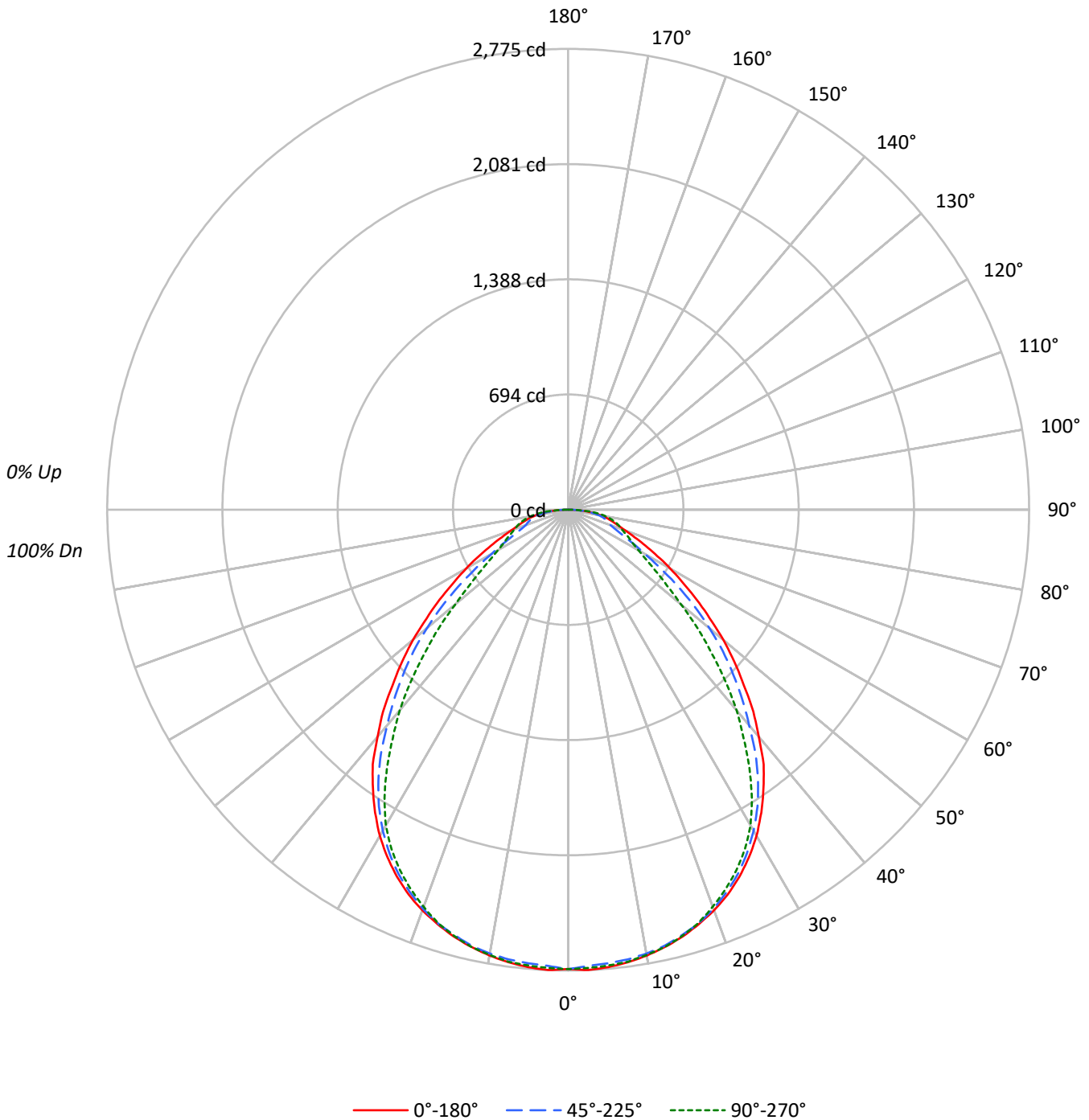
Input Watts (W): 52.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7444	7444	7444
5°	7469	7405	7443
10°	7449	7415	7438
15°	7414	7387	7402
20°	7351	7323	7288
25°	7240	7182	7112
30°	7048	6936	6820
35°	6732	6546	6251
40°	6266	5950	5542
45°	5693	5351	4645
50°	5098	4646	3702
55°	4428	3792	3006
60°	3821	2868	2622
65°	3269	2291	2573
70°	2885	2134	2700
75°	2878	2446	3079
80°	3110	2851	3538
85°	3331	3035	4060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	4.4
10°-20°	749.5	12.6
20°-30°	1112.0	18.7
30°-40°	1234.9	20.7
40°-50°	1065.1	17.9
50°-60°	722.2	12.1
60°-70°	417.6	7.0
70°-80°	272.6	4.6
80°-90°	118.9	2.0
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°	2123.5	35.7
0°-40°	3358.4	56.4
0°-60°	5145.7	86.4
0°-90°	5954.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5954.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2766	2766	2766	2766	2766	
5°	2765	2754	2741	2761	2755	263
15°	2661	2656	2651	2669	2657	750
25°	2438	2436	2419	2412	2395	1121
35°	2049	2030	1993	1937	1903	1278
45°	1496	1472	1406	1290	1220	1156
55°	944	924	808	688	641	848
65°	513	455	360	368	404	516
75°	277	250	235	263	296	295
85°	108	105	98	137	132	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2766.3	2766.3	2766.3	2766.3	2766.3
2.5°	2774.6	2764.9	2749.7	2766.3	2762.1
5°	2764.9	2753.8	2741.4	2760.7	2755.2
7.5°	2749.7	2738.6	2731.7	2748.3	2745.5
10°	2726.1	2717.8	2713.7	2734.4	2722.0
12.5°	2697.1	2690.2	2688.8	2705.4	2695.7
15°	2661.1	2655.6	2651.4	2669.4	2657.0
17.5°	2616.8	2614.1	2611.3	2619.6	2608.5
20°	2567.0	2564.2	2557.3	2558.7	2544.9
22.5°	2508.9	2506.1	2492.3	2489.5	2474.3
25°	2438.3	2435.5	2418.9	2412.0	2395.4
27.5°	2358.0	2359.4	2331.8	2319.3	2304.1
30°	2268.1	2262.6	2232.1	2211.4	2194.8
32.5°	2162.9	2156.0	2120.0	2086.8	2057.8
35°	2049.4	2030.1	1992.7	1937.4	1902.8
37.5°	1933.2	1906.9	1851.6	1781.0	1735.3
40°	1783.8	1756.1	1693.8	1613.5	1577.6
42.5°	1649.5	1620.5	1551.3	1457.2	1400.4
45°	1495.9	1472.4	1406.0	1289.7	1220.5
47.5°	1356.2	1331.2	1263.4	1126.4	1058.6
50°	1217.8	1190.1	1109.8	961.8	884.3
52.5°	1073.9	1058.6	960.4	812.3	750.0
55°	943.8	924.4	808.2	687.8	640.7
57.5°	819.2	787.4	661.5	571.5	553.5
60°	709.9	665.6	532.8	483.0	487.1
62.5°	606.1	553.5	437.3	413.8	437.3
65°	513.4	455.3	359.8	368.1	404.1
67.5°	431.8	376.4	305.8	339.0	369.5
70°	366.7	321.0	271.2	308.6	343.2
72.5°	314.1	283.7	254.6	283.7	321.0
75°	276.8	250.5	235.3	262.9	296.1
77.5°	242.2	221.4	214.5	236.6	264.3
80°	200.7	191.0	184.0	213.1	228.3
82.5°	155.0	150.8	145.3	181.3	188.2
85°	107.9	105.2	98.3	137.0	131.5
87.5°	56.7	54.0	49.8	72.0	65.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)