

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: P476106

Luminaire Tested: **22GR-LD5-70-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476106  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-70-A125-UNV-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7220.8 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

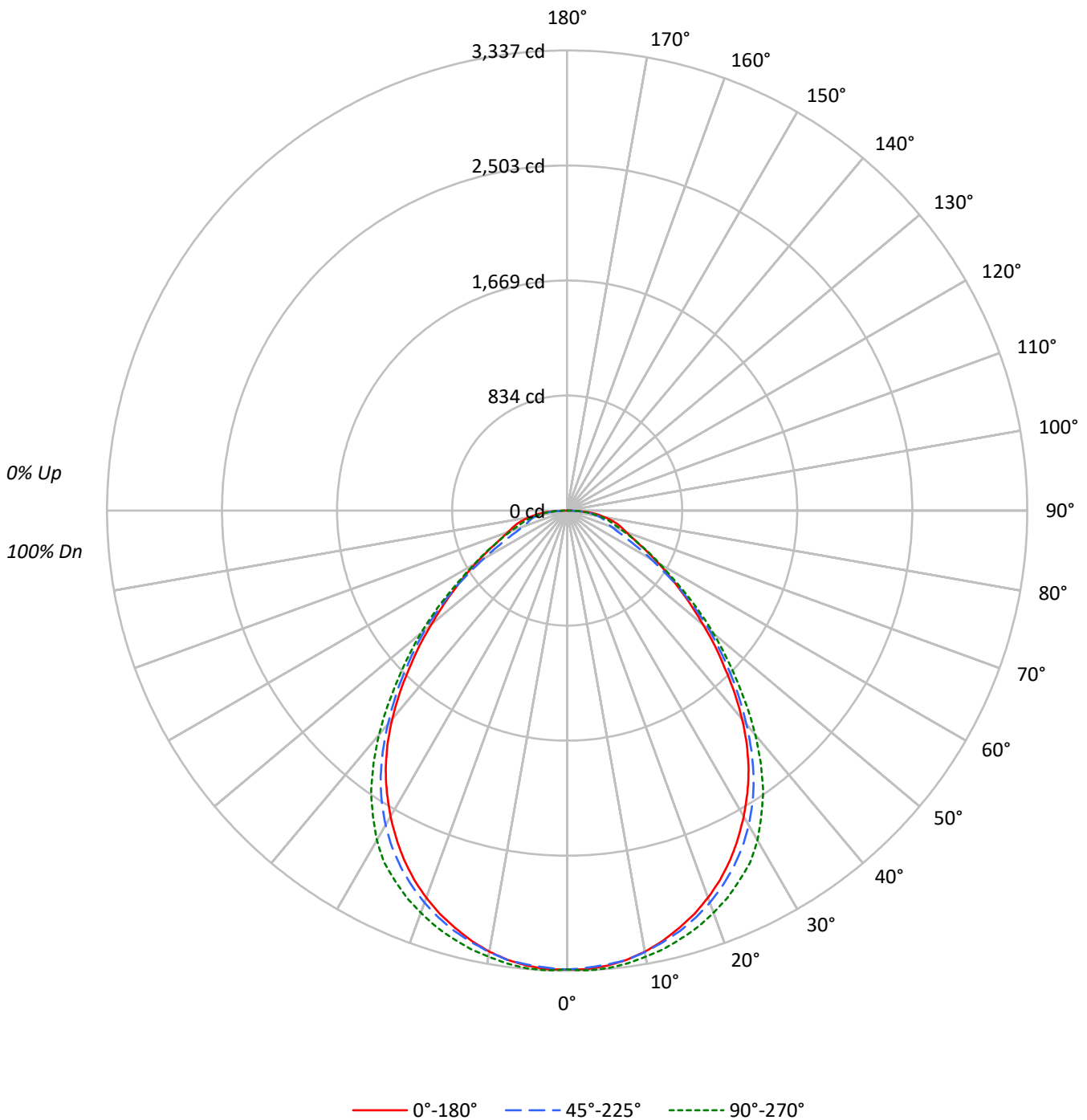
Input Watts (W): 52.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

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

	0°	45°	90°
0°	8957	8957	8957
5°	8950	8927	9001
10°	8875	8883	8976
15°	8733	8795	8944
20°	8553	8664	8886
25°	8304	8473	8784
30°	7957	8182	8575
35°	7538	7749	8141
40°	6932	7103	7458
45°	6157	6381	6612
50°	5378	5624	5794
55°	4675	4740	4913
60°	4114	3769	4196
65°	3656	3012	3676
70°	3589	2674	3393
75°	3923	2941	3464
80°	4308	3493	3707
85°	5144	4057	4153



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.6	4.4
10°-20°	892.1	12.4
20°-30°	1317.0	18.2
30°-40°	1473.7	20.4
40°-50°	1294.1	17.9
50°-60°	915.7	12.7
60°-70°	533.0	7.4
70°-80°	332.2	4.6
80°-90°	148.6	2.1
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°	2523.6	34.9
0°-40°	3997.3	55.4
0°-60°	6207.0	86.0
0°-90°	7220.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7220.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3328	3328	3328	3328	3328	
5°	3313	3305	3305	3322	3332	314
15°	3135	3141	3157	3190	3210	883
25°	2797	2808	2854	2921	2958	1284
35°	2295	2305	2359	2430	2478	1427
45°	1618	1637	1677	1717	1737	1251
55°	996	1017	1010	1029	1047	901
65°	574	529	473	515	577	582
75°	377	325	283	290	333	394
85°	167	173	131	128	134	169
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3328.5	3328.5	3328.5	3328.5	3328.5
2.5°	3328.5	3321.8	3318.2	3330.2	3336.9
5°	3313.3	3304.9	3304.9	3321.8	3332.0
7.5°	3286.6	3278.1	3287.9	3303.1	3313.3
10°	3247.8	3244.3	3251.0	3271.4	3284.8
12.5°	3197.1	3198.8	3205.5	3237.6	3254.5
15°	3134.7	3141.4	3157.0	3190.4	3210.4
17.5°	3067.4	3072.8	3095.9	3134.7	3163.6
20°	2986.8	2996.6	3025.5	3074.1	3103.1
22.5°	2897.3	2909.3	2944.5	3003.7	3038.9
25°	2796.6	2808.2	2853.6	2920.9	2958.3
27.5°	2682.1	2700.4	2751.1	2825.1	2875.4
30°	2560.9	2576.1	2633.1	2717.3	2759.6
32.5°	2431.3	2449.6	2503.5	2584.1	2621.5
35°	2294.6	2304.8	2358.7	2429.5	2478.1
37.5°	2140.0	2144.9	2195.2	2261.1	2304.8
40°	1973.4	1976.5	2021.9	2084.3	2123.1
42.5°	1799.6	1801.4	1850.4	1897.2	1931.1
45°	1617.9	1636.6	1676.7	1717.2	1737.3
47.5°	1454.4	1468.2	1505.2	1540.4	1559.1
50°	1284.7	1318.1	1343.5	1362.2	1384.0
52.5°	1138.1	1166.7	1173.3	1195.2	1213.9
55°	996.5	1017.0	1010.3	1028.6	1047.3
57.5°	877.1	866.9	845.0	877.1	900.7
60°	764.4	737.2	700.3	744.4	779.6
62.5°	663.3	619.6	574.2	617.8	676.7
65°	574.2	528.8	473.1	515.4	577.3
67.5°	506.9	459.7	393.8	436.1	498.5
70°	456.1	407.6	339.9	375.5	431.2
72.5°	416.1	363.5	304.7	328.3	375.5
75°	377.3	324.7	282.9	289.5	333.2
77.5°	331.9	293.1	259.3	255.7	289.5
80°	278.0	265.9	225.4	220.5	239.2
82.5°	229.0	224.1	185.3	180.0	187.1
85°	166.6	173.3	131.4	127.8	134.5
87.5°	87.8	95.8	69.0	72.6	73.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)