

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: P476074

Luminaire Tested: **22GR-LD5-24-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476074  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A125-UNV-L830-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2357.2 lumens  
Efficiency: N/A  
Efficacy: 131.7 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

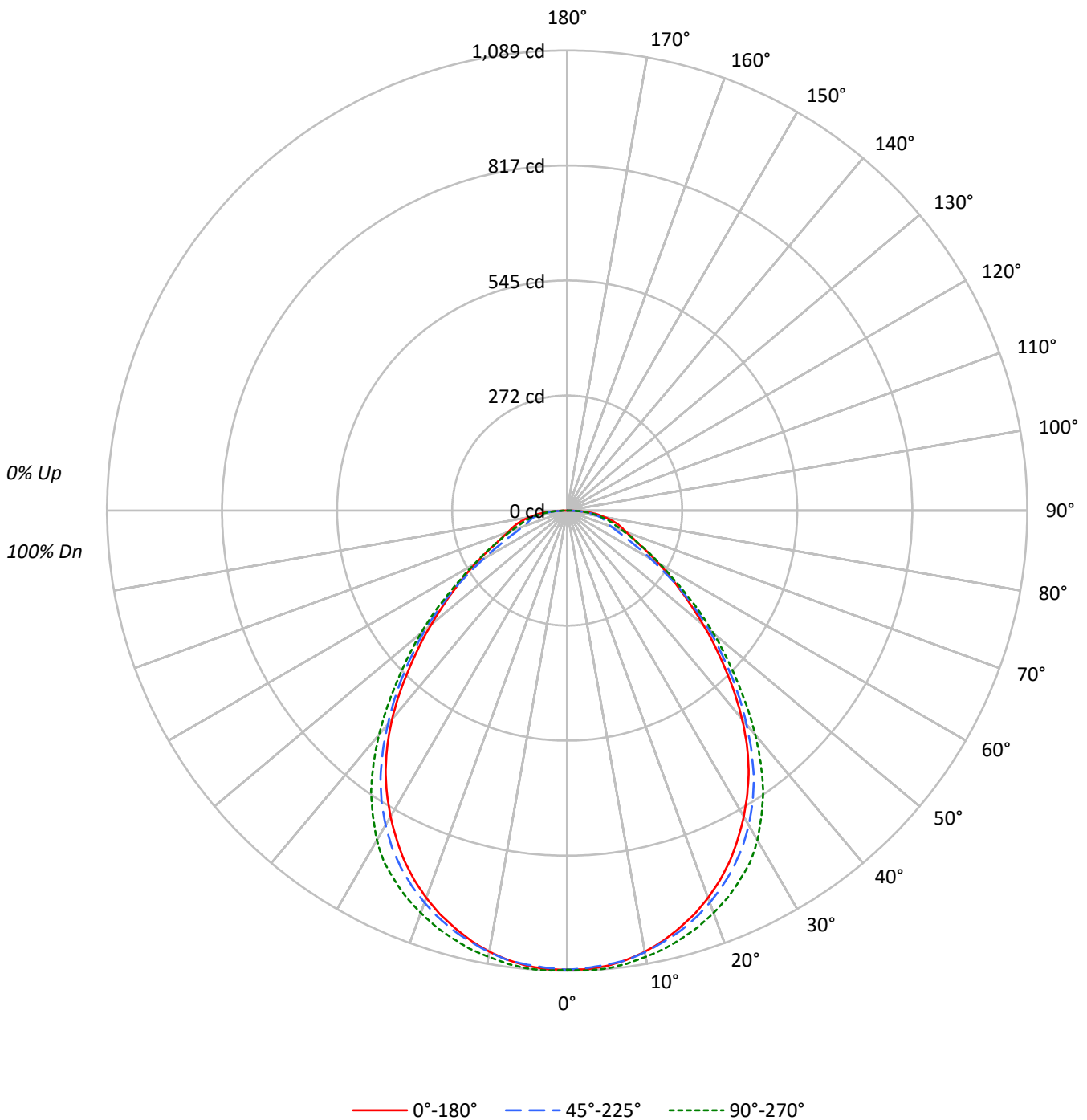
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2924	2924	2924
5°	2922	2914	2938
10°	2897	2900	2930
15°	2851	2871	2920
20°	2792	2828	2901
25°	2711	2766	2867
30°	2598	2671	2799
35°	2461	2530	2658
40°	2263	2319	2435
45°	2010	2083	2158
50°	1756	1836	1891
55°	1526	1547	1604
60°	1343	1230	1370
65°	1193	983	1200
70°	1172	873	1108
75°	1281	960	1131
80°	1406	1141	1210
85°	1680	1325	1355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	4.4
10°-20°	291.2	12.4
20°-30°	429.9	18.2
30°-40°	481.1	20.4
40°-50°	422.5	17.9
50°-60°	298.9	12.7
60°-70°	174.0	7.4
70°-80°	108.4	4.6
80°-90°	48.5	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°	823.8	34.9
0°-40°	1304.9	55.4
0°-60°	2026.3	86.0
0°-90°	2357.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1082	1079	1079	1084	1088	103
15°	1023	1026	1031	1042	1048	288
25°	913	917	932	954	966	419
35°	749	752	770	793	809	466
45°	528	534	547	561	567	409
55°	325	332	330	336	342	294
65°	187	173	154	168	188	190
75°	123	106	92	94	109	129
85°	54	57	43	42	44	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1086.6	1084.4	1083.2	1087.1	1089.3
5°	1081.6	1078.9	1078.9	1084.4	1087.7
7.5°	1072.9	1070.1	1073.3	1078.3	1081.6
10°	1060.2	1059.1	1061.3	1068.0	1072.3
12.5°	1043.7	1044.3	1046.4	1056.9	1062.4
15°	1023.3	1025.5	1030.6	1041.5	1048.0
17.5°	1001.4	1003.1	1010.7	1023.3	1032.8
20°	975.0	978.2	987.7	1003.5	1013.0
22.5°	945.8	949.7	961.2	980.6	992.0
25°	912.9	916.7	931.6	953.5	965.7
27.5°	875.6	881.5	898.1	922.2	938.7
30°	836.0	841.0	859.6	887.1	900.9
32.5°	793.7	799.7	817.3	843.6	855.8
35°	749.1	752.4	770.0	793.1	809.0
37.5°	698.6	700.2	716.6	738.1	752.4
40°	644.2	645.2	660.1	680.4	693.1
42.5°	587.5	588.1	604.1	619.3	630.4
45°	528.2	534.3	547.4	560.6	567.1
47.5°	474.8	479.3	491.4	502.9	509.0
50°	419.4	430.3	438.6	444.7	451.8
52.5°	371.5	380.9	383.0	390.2	396.3
55°	325.3	332.0	329.8	335.8	341.9
57.5°	286.3	283.0	275.9	286.3	294.0
60°	249.5	240.7	228.6	243.0	254.5
62.5°	216.5	202.3	187.4	201.7	220.9
65°	187.4	172.6	154.4	168.2	188.5
67.5°	165.5	150.1	128.6	142.4	162.7
70°	148.9	133.1	111.0	122.6	140.8
72.5°	135.8	118.7	99.5	107.2	122.6
75°	123.2	106.0	92.3	94.5	108.8
77.5°	108.3	95.7	84.6	83.5	94.5
80°	90.7	86.8	73.6	72.0	78.1
82.5°	74.7	73.1	60.5	58.7	61.1
85°	54.4	56.6	42.9	41.7	43.9
87.5°	28.6	31.3	22.5	23.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)