

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: P476341

Luminaire Tested: **14GR-LD5-24-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476341  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-24-A125-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

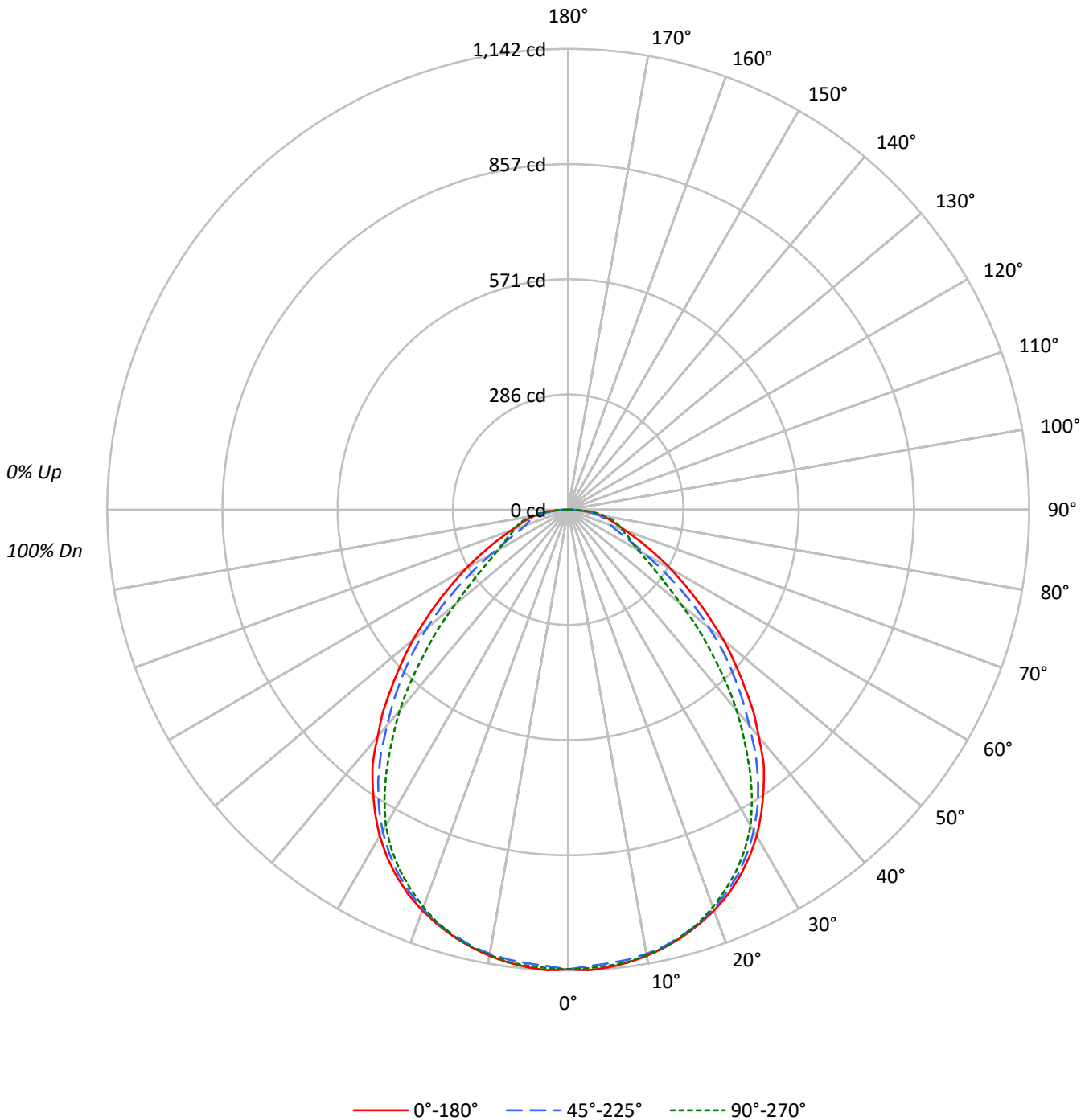
Lumens per Lamp: N/A  
Luminaire Lumens: 2451.7 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.5  
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°	3065	3065	3065
5°	3075	3049	3064
10°	3067	3053	3062
15°	3052	3041	3048
20°	3027	3015	3001
25°	2981	2957	2928
30°	2902	2856	2808
35°	2772	2695	2574
40°	2580	2450	2282
45°	2344	2203	1912
50°	2099	1913	1524
55°	1823	1561	1238
60°	1573	1181	1080
65°	1346	943	1060
70°	1188	879	1112
75°	1185	1007	1267
80°	1280	1175	1457
85°	1371	1250	1670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	4.4
10°-20°	308.6	12.6
20°-30°	457.9	18.7
30°-40°	508.4	20.7
40°-50°	438.5	17.9
50°-60°	297.4	12.1
60°-70°	172.0	7.0
70°-80°	112.2	4.6
80°-90°	48.9	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°	874.3	35.7
0°-40°	1382.7	56.4
0°-60°	2118.6	86.4
0°-90°	2451.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1138	1134	1129	1137	1134	108
15°	1096	1093	1092	1099	1094	309
25°	1004	1003	996	993	986	462
35°	844	836	820	798	783	526
45°	616	606	579	531	502	476
55°	389	381	333	283	264	349
65°	211	187	148	152	166	213
75°	114	103	97	108	122	121
85°	44	43	40	56	54	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1138.9	1138.9	1138.9	1138.9	1138.9
2.5°	1142.4	1138.4	1132.1	1138.9	1137.2
5°	1138.4	1133.8	1128.7	1136.7	1134.4
7.5°	1132.1	1127.5	1124.7	1131.5	1130.4
10°	1122.4	1119.0	1117.3	1125.8	1120.7
12.5°	1110.4	1107.6	1107.0	1113.9	1109.9
15°	1095.6	1093.4	1091.6	1099.1	1093.9
17.5°	1077.4	1076.3	1075.1	1078.5	1074.0
20°	1056.9	1055.8	1052.9	1053.5	1047.8
22.5°	1033.0	1031.8	1026.1	1025.0	1018.7
25°	1003.9	1002.8	995.9	993.1	986.2
27.5°	970.9	971.4	960.0	954.9	948.6
30°	933.8	931.5	919.0	910.5	903.6
32.5°	890.5	887.7	872.9	859.2	847.2
35°	843.8	835.8	820.4	797.7	783.4
37.5°	795.9	785.1	762.3	733.3	714.5
40°	734.4	723.0	697.4	664.3	649.5
42.5°	679.1	667.2	638.7	599.9	576.6
45°	615.9	606.2	578.9	531.0	502.5
47.5°	558.4	548.1	520.2	463.8	435.9
50°	501.4	490.0	456.9	396.0	364.1
52.5°	442.1	435.9	395.4	334.4	308.8
55°	388.6	380.6	332.7	283.2	263.8
57.5°	337.3	324.2	272.3	235.3	227.9
60°	292.3	274.1	219.4	198.8	200.6
62.5°	249.6	227.9	180.0	170.4	180.0
65°	211.4	187.4	148.1	151.6	166.4
67.5°	177.8	155.0	125.9	139.6	152.1
70°	151.0	132.2	111.7	127.1	141.3
72.5°	129.3	116.8	104.8	116.8	132.2
75°	114.0	103.1	96.9	108.3	121.9
77.5°	99.7	91.2	88.3	97.4	108.8
80°	82.6	78.6	75.8	87.7	94.0
82.5°	63.8	62.1	59.8	74.6	77.5
85°	44.4	43.3	40.5	56.4	54.1
87.5°	23.4	22.2	20.5	29.6	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)