

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: P476314

Luminaire Tested: **14GR-LD5-24-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476314  
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-L830-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

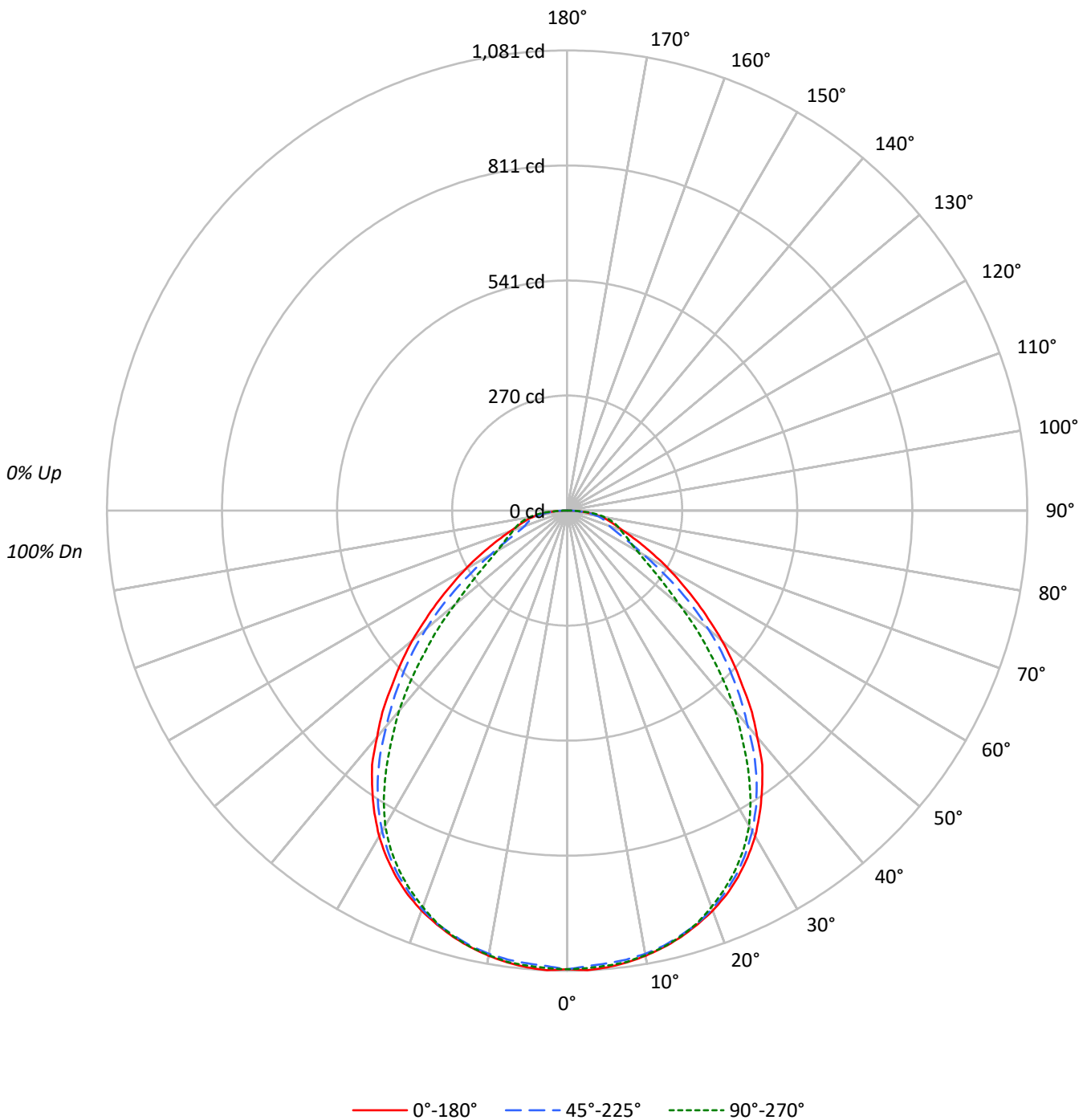
Lumens per Lamp: N/A  
Luminaire Lumens: 2319.5 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	2900	2900	2900
5°	2909	2884	2899
10°	2902	2888	2897
15°	2888	2877	2883
20°	2863	2853	2839
25°	2820	2798	2771
30°	2745	2702	2656
35°	2622	2550	2435
40°	2441	2318	2159
45°	2218	2084	1809
50°	1986	1810	1442
55°	1725	1477	1171
60°	1488	1117	1021
65°	1273	892	1002
70°	1124	832	1052
75°	1121	952	1200
80°	1212	1111	1378
85°	1297	1183	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	4.4
10°-20°	291.9	12.6
20°-30°	433.2	18.7
30°-40°	481.0	20.7
40°-50°	414.9	17.9
50°-60°	281.3	12.1
60°-70°	162.7	7.0
70°-80°	106.2	4.6
80°-90°	46.3	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°	827.1	35.7
0°-40°	1308.2	56.4
0°-60°	2004.4	86.4
0°-90°	2319.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1077	1073	1068	1075	1073	102
15°	1037	1034	1033	1040	1035	292
25°	950	949	942	940	933	437
35°	798	791	776	755	741	498
45°	583	574	548	502	475	450
55°	368	360	315	268	250	330
65°	200	177	140	143	157	201
75°	108	98	92	102	115	115
85°	42	41	38	53	51	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	1080.8	1077.0	1071.1	1077.5	1075.9
5°	1077.0	1072.7	1067.8	1075.4	1073.2
7.5°	1071.1	1066.7	1064.0	1070.5	1069.4
10°	1061.9	1058.7	1057.0	1065.1	1060.3
12.5°	1050.6	1047.9	1047.3	1053.8	1050.0
15°	1036.6	1034.4	1032.8	1039.8	1034.9
17.5°	1019.3	1018.2	1017.2	1020.4	1016.1
20°	999.9	998.8	996.1	996.7	991.3
22.5°	977.3	976.2	970.8	969.7	963.8
25°	949.8	948.7	942.2	939.5	933.1
27.5°	918.5	919.0	908.3	903.4	897.5
30°	883.5	881.3	869.5	861.4	854.9
32.5°	842.5	839.8	825.8	812.9	801.5
35°	798.3	790.8	776.2	754.6	741.2
37.5°	753.0	742.8	721.2	693.7	675.9
40°	694.8	684.0	659.8	628.5	614.5
42.5°	642.5	631.2	604.3	567.6	545.5
45°	582.7	573.5	547.7	502.4	475.4
47.5°	528.3	518.5	492.1	438.8	412.4
50°	474.3	463.6	432.3	374.6	344.4
52.5°	418.3	412.4	374.1	316.4	292.2
55°	367.6	360.1	314.8	267.9	249.6
57.5°	319.1	306.7	257.7	222.6	215.6
60°	276.5	259.3	207.5	188.1	189.7
62.5°	236.1	215.6	170.3	161.2	170.3
65°	200.0	177.3	140.1	143.4	157.4
67.5°	168.2	146.6	119.1	132.1	143.9
70°	142.8	125.1	105.7	120.2	133.7
72.5°	122.4	110.5	99.2	110.5	125.1
75°	107.8	97.6	91.6	102.4	115.4
77.5°	94.3	86.2	83.5	92.2	103.0
80°	78.2	74.4	71.7	83.0	88.9
82.5°	60.4	58.8	56.6	70.6	73.3
85°	42.0	41.0	38.3	53.4	51.2
87.5°	22.1	21.0	19.4	28.0	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)