

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: P476322

Luminaire Tested: **14GR-LD5-20-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476322  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-20-A125-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

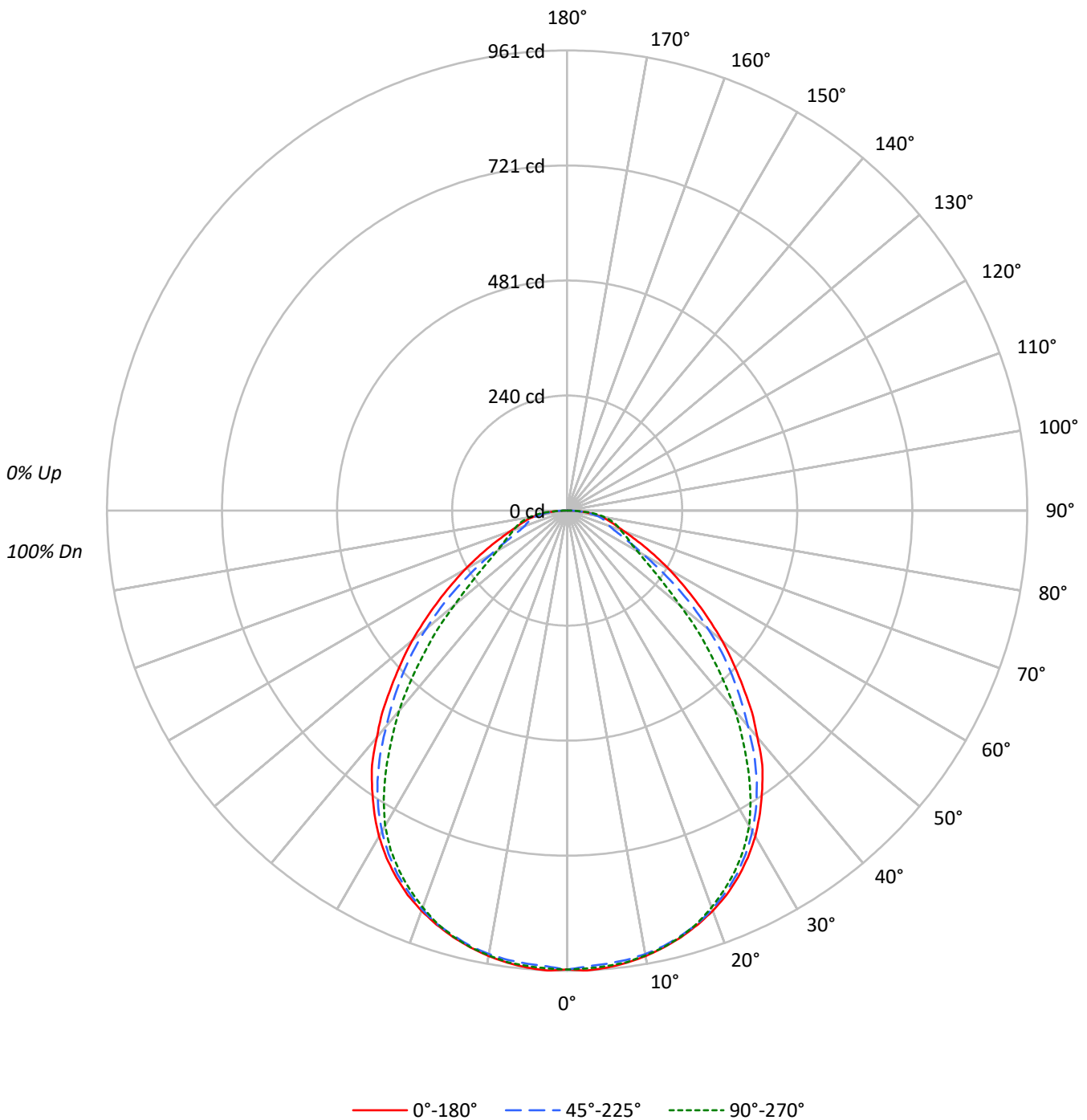
Lumens per Lamp: N/A  
Luminaire Lumens: 2063.3 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32

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

	0°	45°	90°
0°	2579	2579	2579
5°	2588	2566	2579
10°	2581	2569	2577
15°	2569	2559	2565
20°	2547	2538	2525
25°	2509	2488	2464
30°	2442	2403	2363
35°	2333	2268	2166
40°	2171	2062	1920
45°	1972	1854	1609
50°	1766	1610	1283
55°	1534	1314	1042
60°	1324	994	908
65°	1133	794	891
70°	1000	740	935
75°	997	847	1067
80°	1077	989	1226
85°	1155	1050	1408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	4.4
10°-20°	259.7	12.6
20°-30°	385.3	18.7
30°-40°	427.9	20.7
40°-50°	369.0	17.9
50°-60°	250.3	12.1
60°-70°	144.7	7.0
70°-80°	94.5	4.6
80°-90°	41.2	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°	735.8	35.7
0°-40°	1163.6	56.4
0°-60°	1782.9	86.4
0°-90°	2063.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	958	954	950	957	955	91
15°	922	920	919	925	921	260
25°	845	844	838	836	830	388
35°	710	703	690	671	659	443
45°	518	510	487	447	423	401
55°	327	320	280	238	222	294
65°	178	158	125	128	140	179
75°	96	87	82	91	103	102
85°	37	36	34	48	46	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	958.5	958.5	958.5	958.5	958.5
2.5°	961.4	958.0	952.7	958.5	957.1
5°	958.0	954.2	949.9	956.6	954.7
7.5°	952.7	948.9	946.5	952.3	951.3
10°	944.6	941.7	940.3	947.5	943.1
12.5°	934.5	932.1	931.6	937.4	934.0
15°	922.0	920.1	918.7	924.9	920.6
17.5°	906.7	905.7	904.8	907.7	903.8
20°	889.4	888.5	886.1	886.6	881.8
22.5°	869.3	868.3	863.6	862.6	857.3
25°	844.9	843.9	838.1	835.7	830.0
27.5°	817.0	817.5	807.9	803.6	798.3
30°	785.9	784.0	773.4	766.2	760.5
32.5°	749.4	747.0	734.6	723.1	713.0
35°	710.1	703.4	690.5	671.3	659.3
37.5°	669.8	660.7	641.5	617.1	601.3
40°	618.1	608.5	586.9	559.1	546.6
42.5°	571.5	561.5	537.5	504.9	485.2
45°	518.3	510.2	487.2	446.9	422.9
47.5°	469.9	461.3	437.8	390.3	366.8
50°	421.9	412.4	384.5	333.2	306.4
52.5°	372.1	366.8	332.8	281.5	259.9
55°	327.0	320.3	280.0	238.3	222.0
57.5°	283.9	272.8	229.2	198.0	191.8
60°	246.0	230.6	184.6	167.3	168.8
62.5°	210.0	191.8	151.5	143.4	151.5
65°	177.9	157.8	124.7	127.5	140.0
67.5°	149.6	130.4	106.0	117.5	128.0
70°	127.1	111.2	94.0	106.9	118.9
72.5°	108.8	98.3	88.2	98.3	111.2
75°	95.9	86.8	81.5	91.1	102.6
77.5°	83.9	76.7	74.3	82.0	91.6
80°	69.5	66.2	63.8	73.8	79.1
82.5°	53.7	52.3	50.3	62.8	65.2
85°	37.4	36.4	34.0	47.5	45.6
87.5°	19.7	18.7	17.3	24.9	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)