

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: P225873

Luminaire Tested: **14GR-LD5-24-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-24-A125-UNV-L950-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2270.5 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

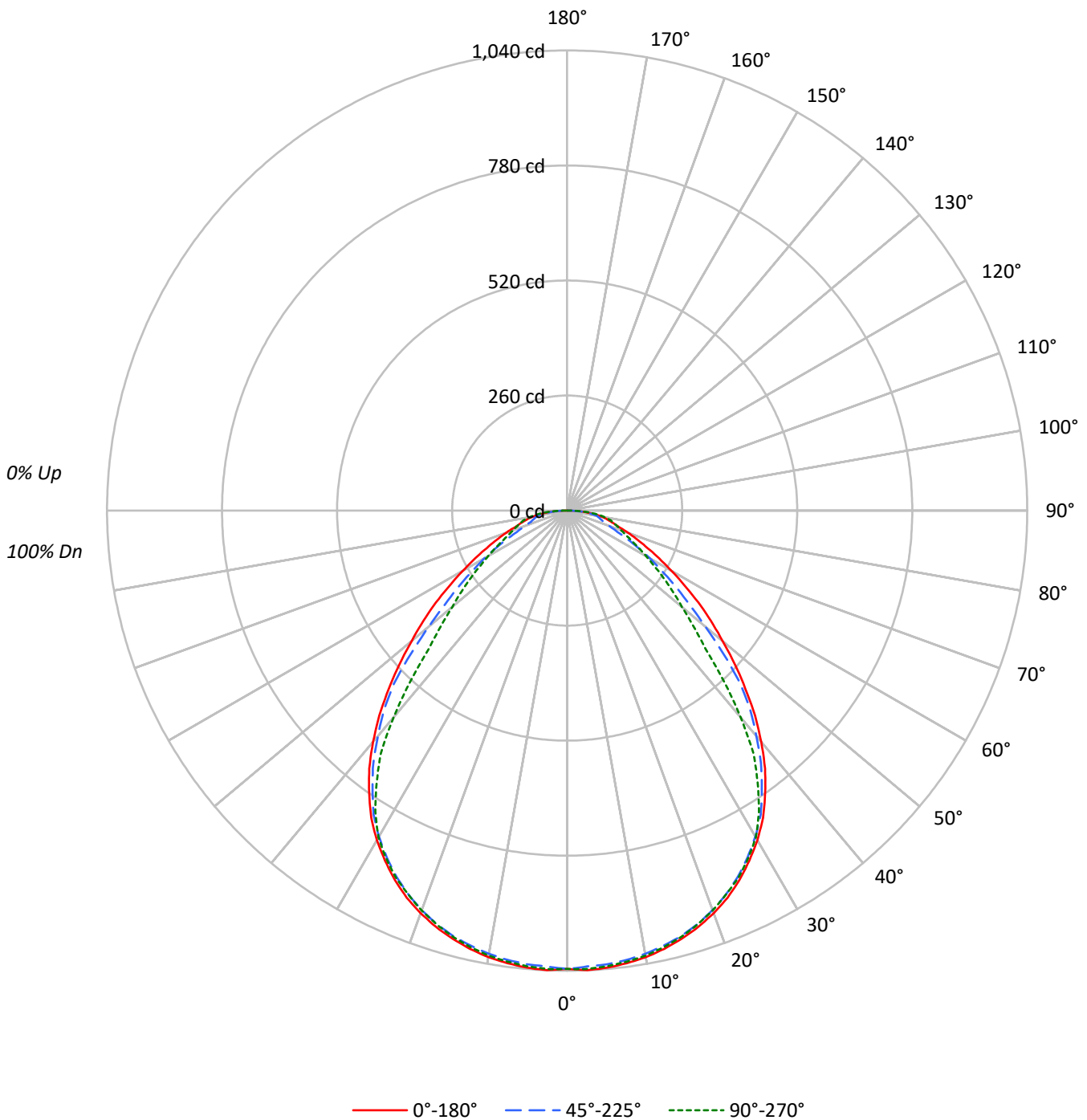
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

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

	0°	45°	90°
0°	3491	3491	3491
5°	3508	3481	3497
10°	3507	3480	3494
15°	3495	3473	3478
20°	3471	3445	3449
25°	3425	3394	3404
30°	3347	3310	3318
35°	3209	3155	3088
40°	3000	2926	2685
45°	2716	2638	2106
50°	2402	2134	1776
55°	2126	1755	1566
60°	1836	1452	1388
65°	1596	1155	1277
70°	1442	991	1277
75°	1385	1035	1427
80°	1543	1320	1665
85°	1628	1403	1995



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	4.3
10°-20°	281.6	12.4
20°-30°	421.5	18.6
30°-40°	477.1	21.0
40°-50°	406.4	17.9
50°-60°	275.2	12.1
60°-70°	164.3	7.2
70°-80°	102.7	4.5
80°-90°	43.4	1.9
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
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0°-30°	801.4	35.3
0°-40°	1278.5	56.3
0°-60°	1960.1	86.3
0°-90°	2270.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1037	1034	1029	1036	1034	99
15°	1002	998	996	1002	997	283
25°	921	919	913	917	916	424
35°	780	775	767	759	751	486
45°	570	572	554	472	442	440
55°	362	342	299	266	266	324
65°	200	167	145	155	160	202
75°	106	95	80	104	110	115
85°	42	39	36	46	52	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1036.0	1036.0	1036.0	1036.0	1036.0
2.5°	1039.8	1037.1	1031.3	1038.2	1037.1
5°	1037.1	1034.5	1029.2	1035.6	1033.9
7.5°	1031.8	1029.2	1024.5	1030.8	1028.2
10°	1025.0	1021.8	1017.1	1023.9	1021.3
12.5°	1014.5	1011.3	1007.1	1013.9	1010.3
15°	1001.8	998.2	995.5	1001.8	997.1
17.5°	986.5	983.4	979.7	986.1	980.8
20°	968.1	965.5	960.8	964.4	961.8
22.5°	947.0	943.4	938.7	942.9	939.1
25°	921.3	918.6	912.8	917.0	915.5
27.5°	891.7	890.2	883.3	888.6	886.0
30°	860.1	855.9	850.7	852.2	852.8
32.5°	823.8	818.5	814.4	810.6	807.0
35°	780.1	775.3	766.9	759.0	750.6
37.5°	734.8	728.5	720.1	702.7	692.1
40°	682.1	679.0	665.3	641.0	610.5
42.5°	628.4	625.3	613.2	558.8	525.7
45°	569.9	571.5	553.6	471.9	441.9
47.5°	514.1	518.3	479.3	402.9	387.1
50°	458.3	463.0	407.1	348.2	338.7
52.5°	409.2	405.6	347.1	305.5	301.3
55°	361.9	341.9	298.7	266.5	266.5
57.5°	313.4	284.9	253.9	233.3	233.3
60°	272.4	237.1	215.4	201.7	205.9
62.5°	234.4	197.0	178.5	175.9	181.2
65°	200.2	167.0	144.9	154.9	160.2
67.5°	172.3	142.8	119.0	140.1	143.2
70°	146.4	124.3	100.6	129.0	129.6
72.5°	122.8	109.6	86.4	116.9	119.0
75°	106.4	95.4	79.5	104.3	109.6
77.5°	93.3	81.6	73.3	90.1	100.1
80°	79.5	66.9	68.0	75.9	85.8
82.5°	61.1	51.6	53.7	62.2	70.1
85°	42.1	38.9	36.3	45.9	51.6
87.5°	22.7	21.1	18.5	25.8	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)