

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: P225867

Luminaire Tested: **14GR-LD5-28-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225867  
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-LD5-28-A125-UNV-L940-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: 2480.3 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

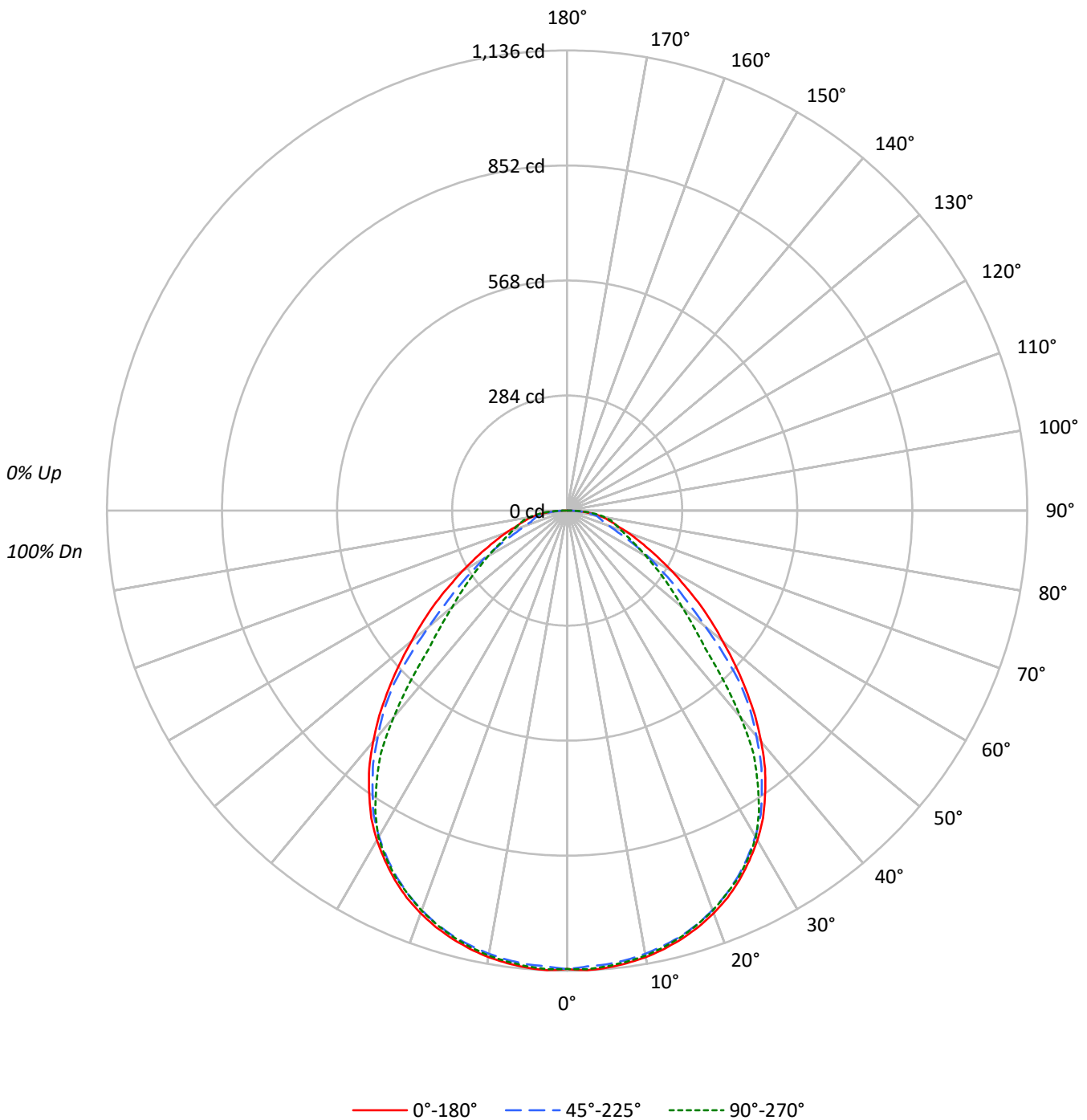
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	52	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°	3814	3814	3814
5°	3832	3803	3820
10°	3831	3802	3817
15°	3818	3794	3800
20°	3792	3763	3768
25°	3742	3708	3718
30°	3656	3615	3625
35°	3506	3446	3373
40°	3277	3197	2933
45°	2967	2882	2300
50°	2624	2332	1940
55°	2322	1917	1710
60°	2005	1586	1516
65°	1743	1261	1394
70°	1576	1083	1395
75°	1514	1131	1558
80°	1686	1440	1820
85°	1778	1535	2181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	4.3
10°-20°	307.7	12.4
20°-30°	460.4	18.6
30°-40°	521.2	21.0
40°-50°	444.0	17.9
50°-60°	300.6	12.1
60°-70°	179.5	7.2
70°-80°	112.1	4.5
80°-90°	47.4	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
0°-30°	875.5	35.3
0°-40°	1396.7	56.3
0°-60°	2141.3	86.3
0°-90°	2480.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1133	1130	1124	1131	1130	108
15°	1094	1090	1088	1094	1089	309
25°	1006	1004	997	1002	1000	463
35°	852	847	838	829	820	531
45°	623	624	605	516	483	480
55°	395	373	326	291	291	353
65°	219	182	158	169	175	220
75°	116	104	87	114	120	126
85°	46	43	40	50	56	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1131.8	1131.8	1131.8	1131.8	1131.8
2.5°	1135.8	1133.0	1126.6	1134.1	1133.0
5°	1133.0	1130.1	1124.4	1131.2	1129.5
7.5°	1127.2	1124.4	1119.1	1126.1	1123.2
10°	1119.7	1116.3	1111.1	1118.6	1115.7
12.5°	1108.2	1104.8	1100.2	1107.7	1103.6
15°	1094.4	1090.4	1087.5	1094.4	1089.2
17.5°	1077.8	1074.3	1070.3	1077.2	1071.4
20°	1057.5	1054.7	1049.5	1053.6	1050.7
22.5°	1034.6	1030.5	1025.4	1029.9	1026.0
25°	1006.4	1003.5	997.2	1001.8	1000.0
27.5°	974.1	972.4	964.9	970.7	967.8
30°	939.6	935.0	929.2	931.0	931.6
32.5°	899.9	894.1	889.6	885.5	881.5
35°	852.2	847.0	837.8	829.1	819.9
37.5°	802.7	795.8	786.6	767.6	756.1
40°	745.1	741.7	726.7	700.3	666.9
42.5°	686.5	683.0	669.8	610.5	574.2
45°	622.6	624.3	604.8	515.6	482.7
47.5°	561.6	566.2	523.7	440.1	422.9
50°	500.6	505.8	444.8	380.4	370.0
52.5°	447.1	443.1	379.2	333.8	329.1
55°	395.3	373.4	326.3	291.1	291.1
57.5°	342.4	311.3	277.4	254.9	254.9
60°	297.5	258.9	235.3	220.4	225.0
62.5°	256.0	215.2	195.0	192.2	198.0
65°	218.6	182.4	158.2	169.2	174.9
67.5°	188.2	155.9	130.0	153.1	156.5
70°	160.0	135.8	109.9	141.0	141.6
72.5°	134.1	119.7	94.3	127.7	130.0
75°	116.3	104.1	86.9	114.0	119.7
77.5°	101.8	89.2	80.0	98.4	109.3
80°	86.9	73.1	74.2	82.8	93.8
82.5°	66.7	56.4	58.7	67.9	76.5
85°	46.0	42.6	39.7	50.1	56.4
87.5°	24.8	23.0	20.1	28.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)