

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: P476344

Luminaire Tested: **14GR-LD5-36-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476344  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-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: 3803.5 lumens  
Efficiency: N/A  
Efficacy: 131.2 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

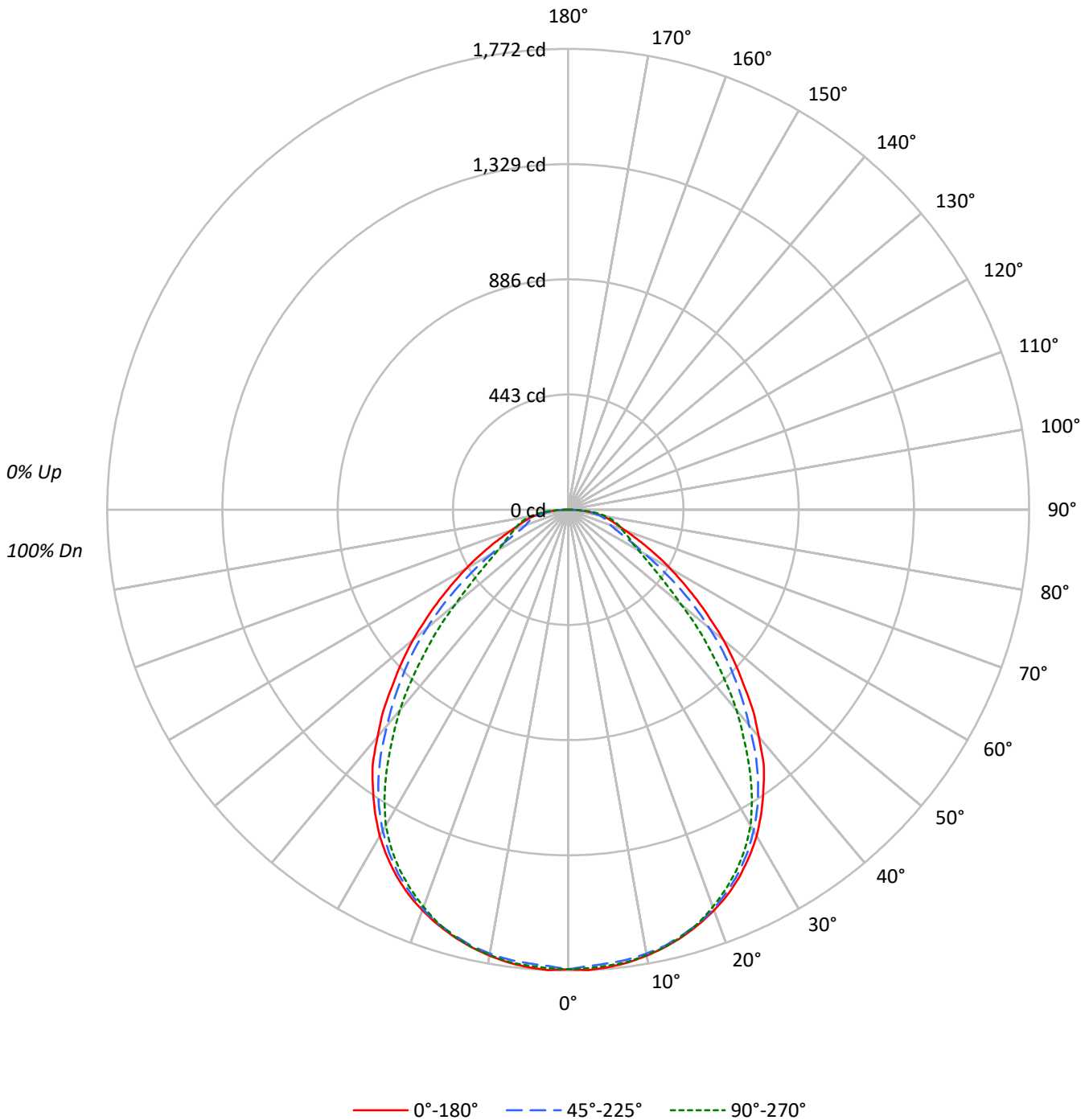
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4755	4755	4755
5°	4770	4730	4754
10°	4758	4736	4751
15°	4735	4718	4728
20°	4695	4678	4655
25°	4624	4588	4543
30°	4502	4430	4356
35°	4300	4181	3993
40°	4003	3801	3540
45°	3636	3417	2967
50°	3256	2968	2364
55°	2828	2422	1920
60°	2440	1831	1674
65°	2088	1463	1643
70°	1843	1363	1725
75°	1838	1563	1967
80°	1987	1822	2259
85°	2127	1939	2594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.3	4.4
10°-20°	478.7	12.6
20°-30°	710.3	18.7
30°-40°	788.8	20.7
40°-50°	680.3	17.9
50°-60°	461.3	12.1
60°-70°	266.8	7.0
70°-80°	174.1	4.6
80°-90°	75.9	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°	1356.3	35.7
0°-40°	2145.1	56.4
0°-60°	3286.7	86.4
0°-90°	3803.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1766	1759	1751	1763	1760	168
15°	1700	1696	1694	1705	1697	479
25°	1557	1556	1545	1541	1530	716
35°	1309	1297	1273	1238	1215	816
45°	956	940	898	824	780	738
55°	603	590	516	439	409	542
65°	328	291	230	235	258	330
75°	177	160	150	168	189	188
85°	69	67	63	88	84	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1772.2	1766.0	1756.3	1766.9	1764.3
5°	1766.0	1759.0	1751.0	1763.4	1759.9
7.5°	1756.3	1749.2	1744.8	1755.4	1753.7
10°	1741.3	1736.0	1733.3	1746.6	1738.6
12.5°	1722.7	1718.3	1717.4	1728.0	1721.8
15°	1699.7	1696.2	1693.6	1705.0	1697.1
17.5°	1671.5	1669.7	1667.9	1673.2	1666.2
20°	1639.6	1637.9	1633.5	1634.3	1625.5
22.5°	1602.5	1600.7	1591.9	1590.1	1580.4
25°	1557.4	1555.7	1545.1	1540.6	1530.0
27.5°	1506.2	1507.1	1489.4	1481.4	1471.7
30°	1448.7	1445.2	1425.7	1412.5	1401.9
32.5°	1381.5	1377.1	1354.1	1332.9	1314.4
35°	1309.1	1296.7	1272.8	1237.5	1215.4
37.5°	1234.8	1218.0	1182.7	1137.6	1108.4
40°	1139.4	1121.7	1081.9	1030.6	1007.6
42.5°	1053.6	1035.1	990.9	930.7	894.5
45°	955.5	940.5	898.0	823.8	779.6
47.5°	866.2	850.3	807.0	719.5	676.2
50°	777.8	760.2	708.9	614.3	564.8
52.5°	685.9	676.2	613.4	518.9	479.1
55°	602.8	590.4	516.2	439.3	409.2
57.5°	523.3	502.9	422.5	365.1	353.6
60°	453.4	425.2	340.3	308.5	311.1
62.5°	387.1	353.6	279.3	264.3	279.3
65°	327.9	290.8	229.8	235.1	258.1
67.5°	275.8	240.4	195.3	216.6	236.0
70°	234.2	205.1	173.2	197.1	219.2
72.5°	200.6	181.2	162.6	181.2	205.1
75°	176.8	160.0	150.3	167.9	189.2
77.5°	154.7	141.4	137.0	151.1	168.8
80°	128.2	122.0	117.6	136.1	145.8
82.5°	99.0	96.3	92.8	115.8	120.2
85°	68.9	67.2	62.8	87.5	84.0
87.5°	36.2	34.5	31.8	46.0	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)