

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: P476335

Luminaire Tested: **14GR-LD5-36-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476335  
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-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3799.8 lumens  
Efficiency: N/A  
Efficacy: 131.0 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

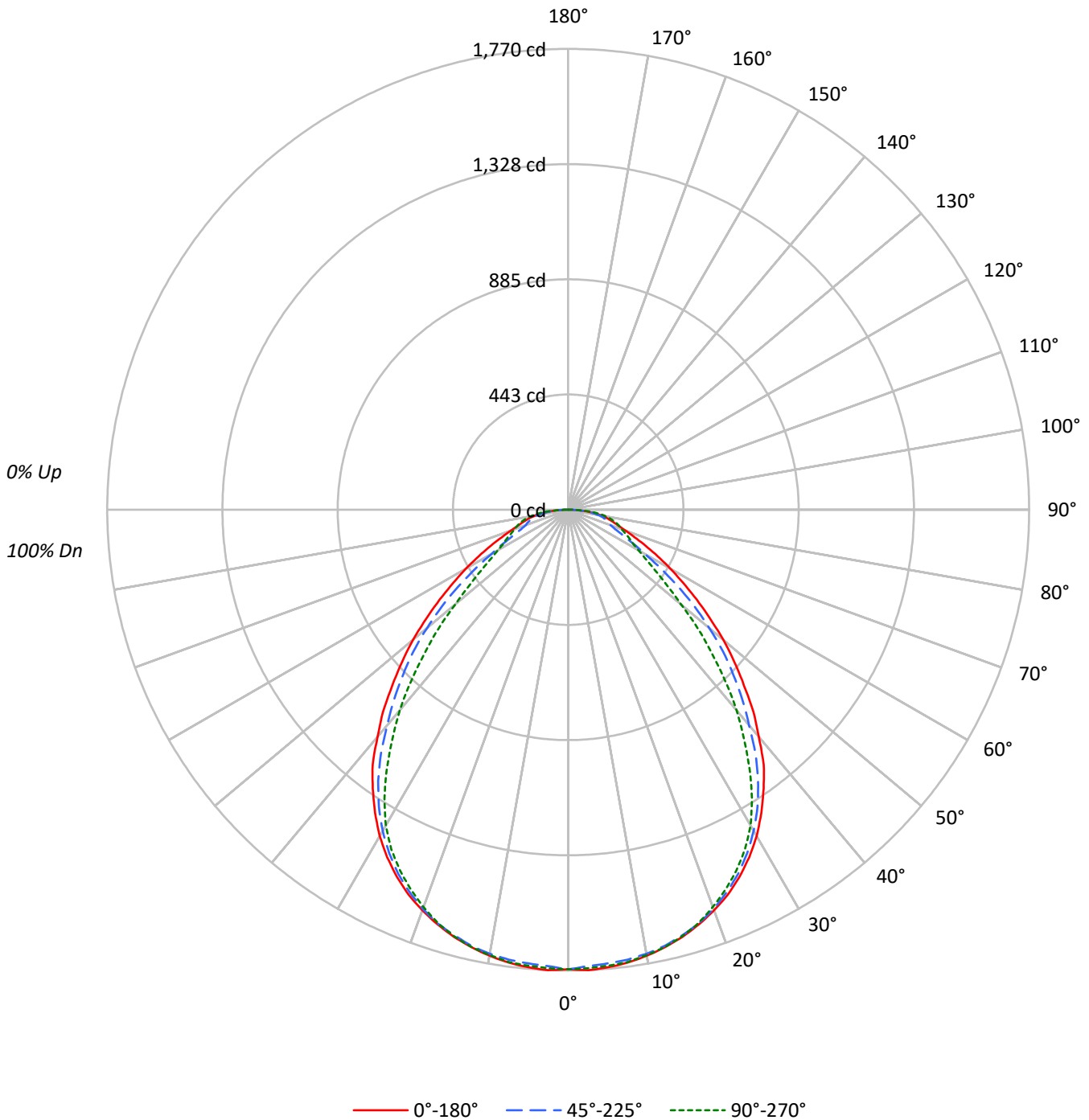
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4750	4750	4750
5°	4766	4725	4749
10°	4753	4732	4746
15°	4731	4713	4723
20°	4691	4673	4650
25°	4620	4583	4538
30°	4497	4426	4352
35°	4296	4177	3989
40°	3998	3797	3536
45°	3633	3414	2964
50°	3253	2965	2362
55°	2825	2419	1918
60°	2438	1830	1673
65°	2086	1462	1642
70°	1841	1362	1723
75°	1836	1561	1965
80°	1984	1819	2258
85°	2127	1936	2590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	4.4
10°-20°	478.3	12.6
20°-30°	709.6	18.7
30°-40°	788.0	20.7
40°-50°	679.6	17.9
50°-60°	460.9	12.1
60°-70°	266.5	7.0
70°-80°	174.0	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°	1355.0	35.7
0°-40°	2143.0	56.4
0°-60°	3283.5	86.4
0°-90°	3799.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1764	1757	1749	1762	1758	168
15°	1698	1694	1692	1703	1695	479
25°	1556	1554	1544	1539	1528	715
35°	1308	1295	1272	1236	1214	815
45°	955	940	897	823	779	738
55°	602	590	516	439	409	541
65°	328	290	230	235	258	329
75°	177	160	150	168	189	188
85°	69	67	63	87	84	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1765.2	1765.2	1765.2	1765.2	1765.2
2.5°	1770.5	1764.3	1754.6	1765.2	1762.5
5°	1764.3	1757.2	1749.3	1761.7	1758.1
7.5°	1754.6	1747.5	1743.1	1753.7	1751.9
10°	1739.6	1734.3	1731.6	1744.9	1736.9
12.5°	1721.0	1716.6	1715.7	1726.3	1720.2
15°	1698.1	1694.5	1691.9	1703.4	1695.4
17.5°	1669.8	1668.1	1666.3	1671.6	1664.5
20°	1638.0	1636.3	1631.9	1632.7	1623.9
22.5°	1600.9	1599.2	1590.3	1588.6	1578.9
25°	1555.9	1554.1	1543.5	1539.1	1528.5
27.5°	1504.7	1505.6	1487.9	1480.0	1470.3
30°	1447.3	1443.8	1424.3	1411.1	1400.5
32.5°	1380.2	1375.8	1352.8	1331.6	1313.1
35°	1307.8	1295.4	1271.6	1236.3	1214.2
37.5°	1233.6	1216.8	1181.5	1136.5	1107.3
40°	1138.2	1120.6	1080.8	1029.6	1006.7
42.5°	1052.6	1034.0	989.9	929.8	893.6
45°	954.6	939.6	897.2	823.0	778.8
47.5°	865.4	849.5	806.2	718.8	675.5
50°	777.1	759.4	708.2	613.7	564.3
52.5°	685.2	675.5	612.8	518.3	478.6
55°	602.2	589.9	515.7	438.9	408.8
57.5°	522.8	502.4	422.1	364.7	353.2
60°	453.0	424.7	340.0	308.2	310.8
62.5°	386.8	353.2	279.0	264.0	279.0
65°	327.6	290.5	229.6	234.9	257.8
67.5°	275.5	240.2	195.2	216.3	235.8
70°	234.0	204.9	173.1	196.9	219.0
72.5°	200.4	181.0	162.5	181.0	204.9
75°	176.6	159.8	150.1	167.8	189.0
77.5°	154.5	141.3	136.9	151.0	168.7
80°	128.0	121.9	117.4	136.0	145.7
82.5°	98.9	96.3	92.7	115.7	120.1
85°	68.9	67.1	62.7	87.4	83.9
87.5°	36.2	34.4	31.8	45.9	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)