

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: P476308

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476308  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-A-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3674.6 lumens  
Efficiency: N/A  
Efficacy: 126.7 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

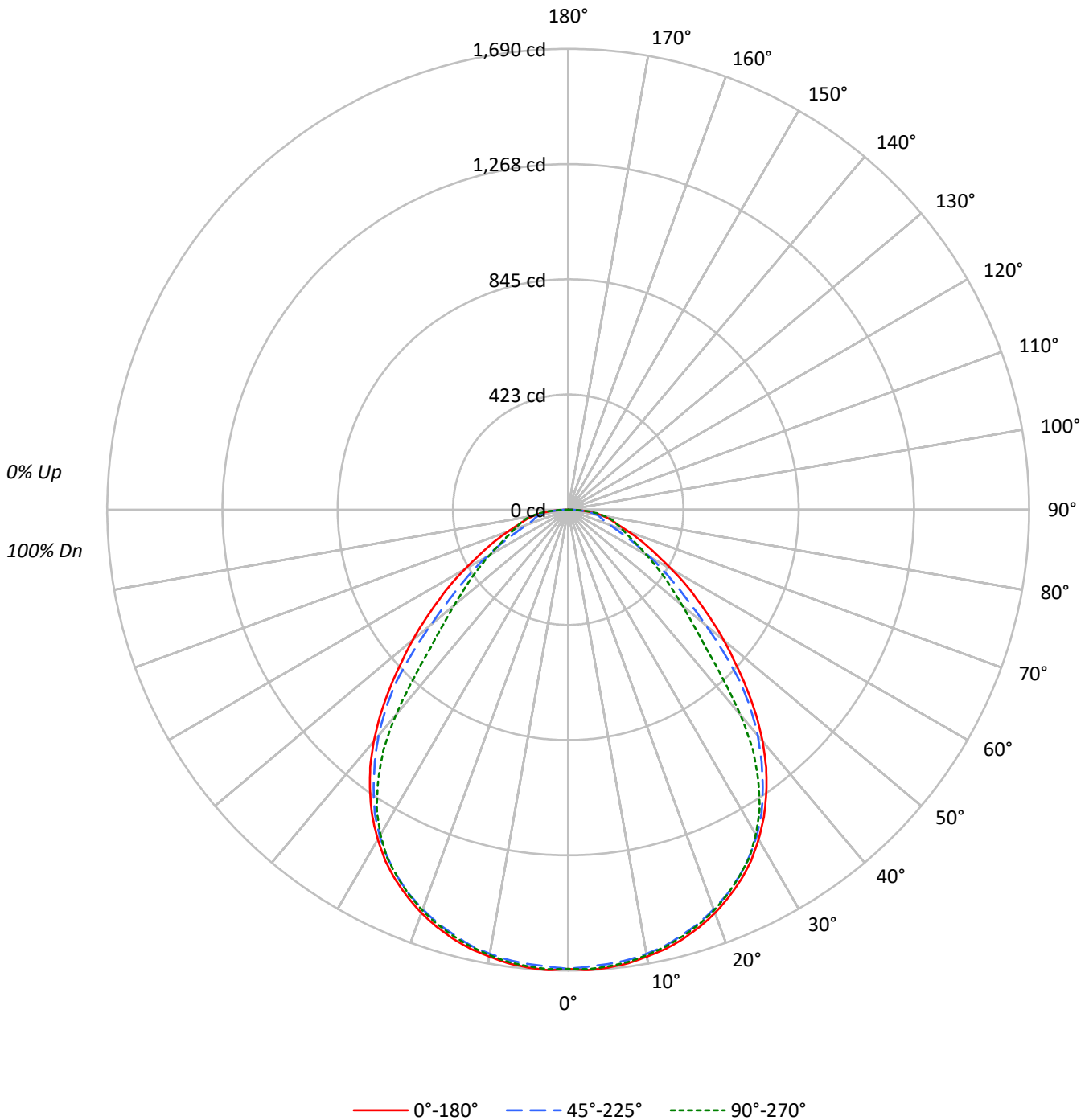
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	74	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	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	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	31	30

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

	0°	45°	90°
0°	5674	5674	5674
5°	5701	5658	5687
10°	5694	5659	5674
15°	5684	5633	5651
20°	5643	5591	5607
25°	5569	5515	5518
30°	5432	5376	5353
35°	5210	5116	4999
40°	4877	4753	4325
45°	4405	4238	3380
50°	3906	3440	2859
55°	3409	2823	2522
60°	2956	2323	2227
65°	2593	1864	2055
70°	2312	1581	2069
75°	2256	1668	2312
80°	2499	2103	2649
85°	2606	2242	3105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	4.3
10°-20°	457.7	12.5
20°-30°	684.6	18.6
30°-40°	772.9	21.0
40°-50°	655.7	17.8
50°-60°	443.6	12.1
60°-70°	264.8	7.2
70°-80°	165.8	4.5
80°-90°	69.8	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°	1302.1	35.4
0°-40°	2075.0	56.5
0°-60°	3174.3	86.4
0°-90°	3674.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1686	1680	1673	1685	1681	160
15°	1629	1626	1615	1626	1620	459
25°	1498	1493	1483	1490	1484	689
35°	1266	1258	1244	1232	1215	789
45°	924	928	889	762	709	712
55°	580	553	480	430	429	523
65°	325	270	234	249	258	325
75°	173	154	128	169	178	186
85°	67	64	58	75	80	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.0	1684.0	1684.0	1684.0	1684.0
2.5°	1689.9	1684.7	1677.0	1687.4	1686.5
5°	1685.6	1680.5	1672.8	1684.7	1681.3
7.5°	1677.9	1673.6	1666.0	1677.0	1673.6
10°	1664.2	1660.8	1654.0	1663.3	1658.3
12.5°	1649.7	1647.2	1638.6	1647.2	1642.0
15°	1629.3	1625.9	1614.8	1625.9	1619.8
17.5°	1603.7	1599.4	1590.1	1599.4	1594.2
20°	1573.8	1568.8	1559.3	1568.8	1563.6
22.5°	1537.9	1533.6	1525.2	1533.6	1526.8
25°	1497.8	1492.8	1483.3	1490.1	1484.2
27.5°	1451.8	1444.9	1436.3	1441.5	1438.1
30°	1396.2	1387.8	1381.7	1381.7	1375.8
32.5°	1335.7	1329.7	1319.5	1313.4	1305.7
35°	1266.5	1258.1	1243.6	1232.5	1215.3
37.5°	1192.3	1182.1	1164.2	1135.9	1113.0
40°	1108.7	1095.8	1080.5	1025.0	983.2
42.5°	1019.1	1016.4	990.1	895.3	837.2
45°	924.3	927.7	889.4	762.2	709.3
47.5°	828.6	840.6	770.8	646.1	618.8
50°	745.1	749.3	656.3	560.8	545.4
52.5°	659.0	652.0	559.9	493.2	482.1
55°	580.3	553.1	480.5	430.2	429.3
57.5°	511.2	460.8	410.5	373.0	377.3
60°	438.6	382.3	344.7	324.3	330.4
62.5°	374.6	320.9	287.6	281.6	291.9
65°	325.2	269.6	233.8	249.2	257.8
67.5°	278.2	231.3	190.3	227.0	230.4
70°	234.7	200.5	160.5	209.1	210.0
72.5°	198.9	177.6	139.0	189.6	192.1
75°	173.3	154.4	128.1	169.0	177.6
77.5°	151.9	132.2	118.6	146.0	160.5
80°	128.8	106.6	108.4	122.0	136.5
82.5°	99.1	82.8	86.2	100.7	110.9
85°	67.4	64.0	58.0	75.1	80.3
87.5°	35.8	34.2	29.9	42.6	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)