

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: P476290

Luminaire Tested: **14GR-LD5-36-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476290  
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-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3602.6 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

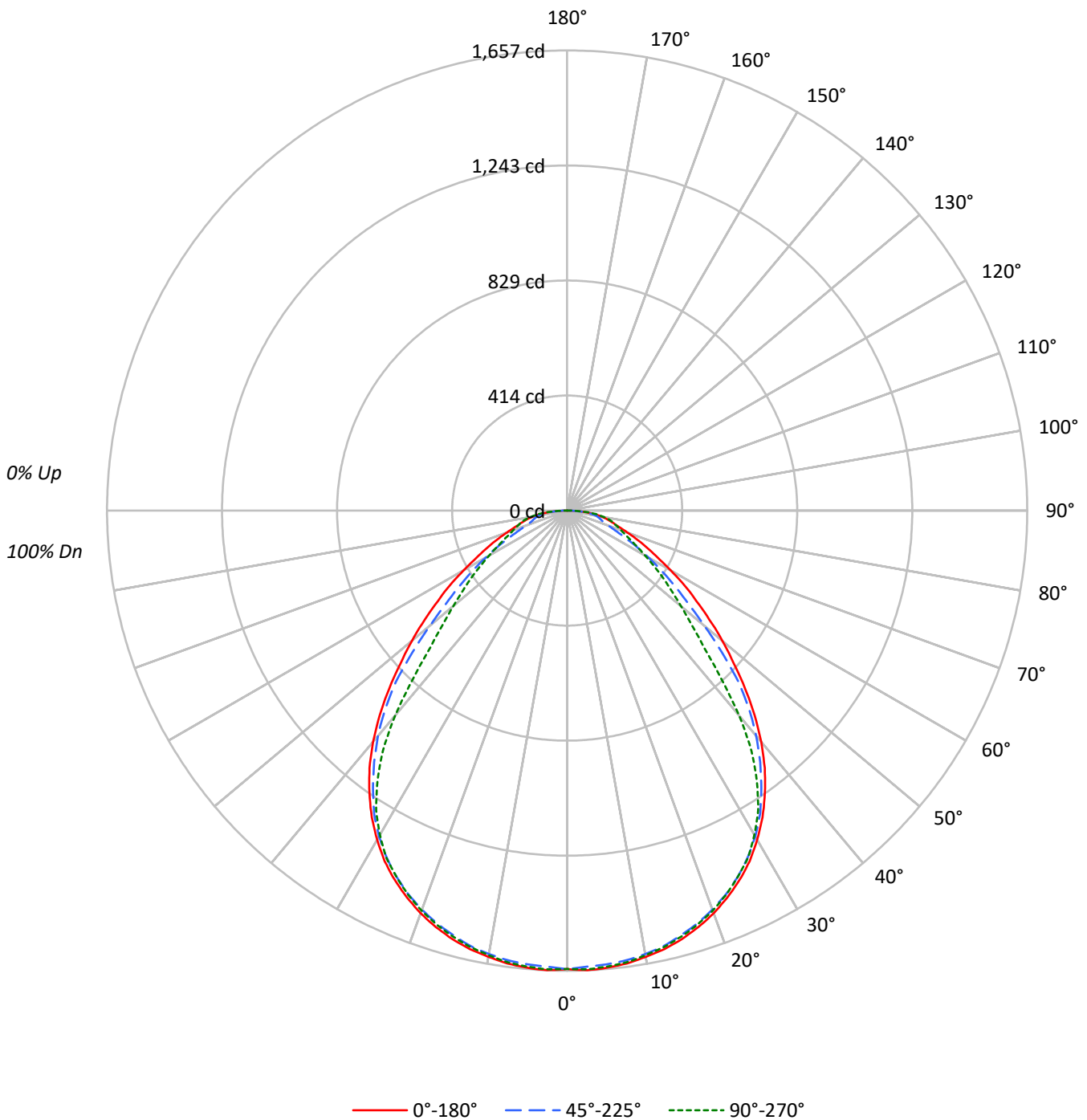
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5563	5563	5563
5°	5589	5547	5575
10°	5583	5548	5563
15°	5572	5523	5540
20°	5533	5482	5497
25°	5459	5407	5410
30°	5326	5271	5248
35°	5108	5015	4901
40°	4781	4660	4240
45°	4318	4155	3314
50°	3829	3373	2803
55°	3342	2768	2473
60°	2898	2278	2183
65°	2542	1827	2016
70°	2267	1551	2029
75°	2212	1635	2267
80°	2451	2063	2596
85°	2552	2200	3043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.6	4.3
10°-20°	448.7	12.5
20°-30°	671.2	18.6
30°-40°	757.7	21.0
40°-50°	642.8	17.8
50°-60°	434.9	12.1
60°-70°	259.6	7.2
70°-80°	162.6	4.5
80°-90°	68.4	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°	1276.6	35.4
0°-40°	2034.3	56.5
0°-60°	3112.0	86.4
0°-90°	3602.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1652	1648	1640	1652	1648	157
15°	1597	1594	1583	1594	1588	450
25°	1468	1464	1454	1461	1455	675
35°	1242	1233	1219	1208	1191	774
45°	906	910	872	747	695	698
55°	569	542	471	422	421	512
65°	319	264	229	244	253	319
75°	170	151	126	166	174	183
85°	66	63	57	74	79	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1650.9	1650.9	1650.9	1650.9	1650.9
2.5°	1656.7	1651.6	1644.1	1654.3	1653.4
5°	1652.5	1647.6	1640.0	1651.6	1648.3
7.5°	1645.0	1640.7	1633.4	1644.1	1640.7
10°	1631.6	1628.3	1621.6	1630.7	1625.8
12.5°	1617.4	1614.9	1606.5	1614.9	1609.8
15°	1597.4	1594.0	1583.1	1594.0	1588.1
17.5°	1572.2	1568.0	1558.9	1568.0	1562.9
20°	1542.9	1538.0	1528.7	1538.0	1532.9
22.5°	1507.8	1503.6	1495.3	1503.6	1496.9
25°	1468.4	1463.5	1454.2	1460.9	1455.1
27.5°	1423.3	1416.6	1408.2	1413.3	1409.9
30°	1368.8	1360.6	1354.6	1354.6	1348.8
32.5°	1309.5	1303.7	1293.7	1287.7	1280.1
35°	1241.7	1233.4	1219.2	1208.3	1191.4
37.5°	1169.0	1158.9	1141.4	1113.6	1091.1
40°	1086.9	1074.3	1059.3	1004.9	964.0
42.5°	999.1	996.5	970.6	877.7	820.8
45°	906.2	909.5	871.9	747.2	695.4
47.5°	812.4	824.1	755.6	633.4	606.7
50°	730.5	734.6	643.4	549.8	534.7
52.5°	646.0	639.2	548.9	483.6	472.7
55°	568.9	542.2	471.1	421.7	420.9
57.5°	501.1	451.8	402.4	365.7	369.9
60°	430.0	374.8	338.0	317.9	323.9
62.5°	367.3	314.6	281.9	276.1	286.1
65°	318.8	264.4	229.2	244.3	252.8
67.5°	272.8	226.8	186.5	222.5	225.9
70°	230.1	196.6	157.4	205.0	205.9
72.5°	195.0	174.1	136.3	185.8	188.3
75°	169.9	151.4	125.6	165.6	174.1
77.5°	149.0	129.6	116.3	143.2	157.4
80°	126.3	104.5	106.3	119.6	133.8
82.5°	97.1	81.2	84.5	98.7	108.7
85°	66.0	62.7	56.9	73.6	78.7
87.5°	35.1	33.5	29.3	41.8	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)