

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: P476307

Luminaire Tested: **14GR-LD5-32-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476307  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-32-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: 3217.5 lumens  
Efficiency: N/A  
Efficacy: 128.7 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

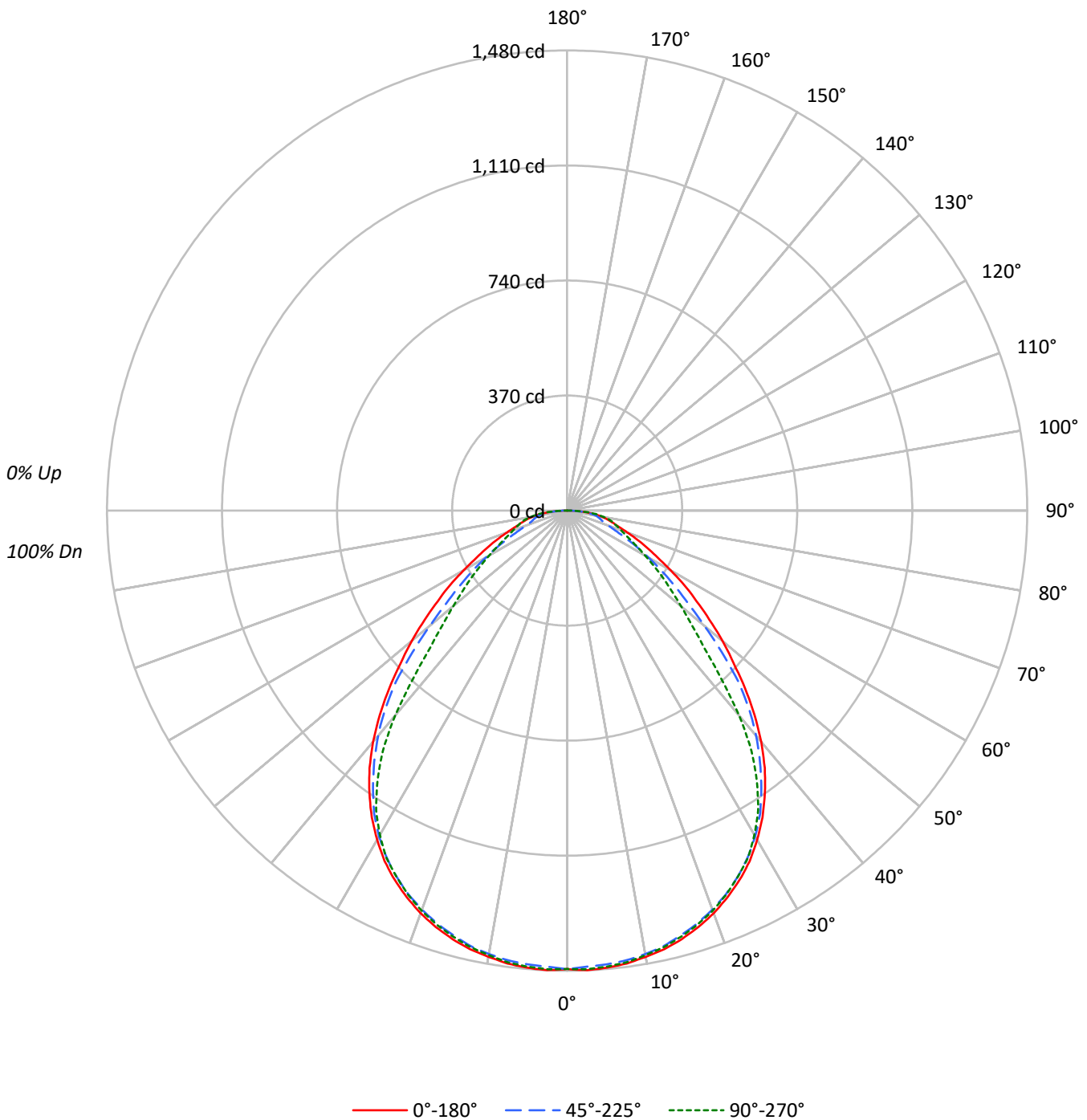
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33				33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30				30

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

	0°	45°	90°
0°	4968	4968	4968
5°	4992	4955	4979
10°	4986	4955	4968
15°	4977	4932	4948
20°	4941	4896	4909
25°	4876	4829	4832
30°	4757	4707	4687
35°	4562	4479	4377
40°	4270	4162	3787
45°	3857	3711	2960
50°	3420	3012	2503
55°	2985	2471	2208
60°	2588	2034	1950
65°	2270	1632	1800
70°	2025	1385	1812
75°	1975	1461	2024
80°	2189	1841	2319
85°	2281	1964	2718



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	4.3
10°-20°	400.8	12.5
20°-30°	599.5	18.6
30°-40°	676.7	21.0
40°-50°	574.1	17.8
50°-60°	388.4	12.1
60°-70°	231.8	7.2
70°-80°	145.2	4.5
80°-90°	61.1	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°	1140.1	35.4
0°-40°	1816.9	56.5
0°-60°	2779.4	86.4
0°-90°	3217.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1476	1472	1465	1475	1472	140
15°	1427	1424	1414	1424	1418	402
25°	1312	1307	1299	1305	1300	603
35°	1109	1102	1089	1079	1064	691
45°	809	812	779	667	621	624
55°	508	484	421	377	376	458
65°	285	236	205	218	226	285
75°	152	135	112	148	156	163
85°	59	56	51	66	70	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1474.5	1474.5	1474.5	1474.5	1474.5
2.5°	1479.7	1475.1	1468.4	1477.5	1476.7
5°	1475.9	1471.5	1464.8	1475.1	1472.1
7.5°	1469.1	1465.4	1458.8	1468.4	1465.4
10°	1457.2	1454.2	1448.3	1456.4	1452.0
12.5°	1444.5	1442.3	1434.8	1442.3	1437.8
15°	1426.6	1423.7	1413.9	1423.7	1418.3
17.5°	1404.2	1400.4	1392.3	1400.4	1395.9
20°	1378.0	1373.6	1365.3	1373.6	1369.1
22.5°	1346.6	1342.9	1335.5	1342.9	1336.9
25°	1311.5	1307.1	1298.8	1304.7	1299.6
27.5°	1271.2	1265.2	1257.7	1262.2	1259.2
30°	1222.5	1215.2	1209.8	1209.8	1204.7
32.5°	1169.5	1164.3	1155.4	1150.1	1143.3
35°	1109.0	1101.6	1088.9	1079.2	1064.1
37.5°	1044.0	1035.1	1019.4	994.6	974.5
40°	970.7	959.5	946.1	897.5	860.9
42.5°	892.3	890.0	866.9	783.9	733.1
45°	809.3	812.3	778.7	667.4	621.1
47.5°	725.6	736.1	674.9	565.7	541.9
50°	652.4	656.1	574.6	491.0	477.5
52.5°	577.0	570.9	490.2	431.9	422.2
55°	508.1	484.3	420.7	376.7	375.9
57.5°	447.6	403.5	359.4	326.6	330.4
60°	384.0	334.8	301.8	283.9	289.3
62.5°	328.0	281.0	251.8	246.6	255.6
65°	284.7	236.1	204.7	218.2	225.7
67.5°	243.6	202.5	166.6	198.8	201.7
70°	205.5	175.5	140.6	183.1	183.9
72.5°	174.1	155.5	121.7	166.0	168.2
75°	151.7	135.2	112.2	147.9	155.5
77.5°	133.0	115.8	103.9	127.9	140.6
80°	112.8	93.3	94.9	106.8	119.5
82.5°	86.8	72.5	75.5	88.2	97.1
85°	59.0	56.0	50.8	65.7	70.3
87.5°	31.4	30.0	26.2	37.3	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)