

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: P476052

Luminaire Tested: **22GR-LD5-32-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476052  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A-UNV-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3235.1 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

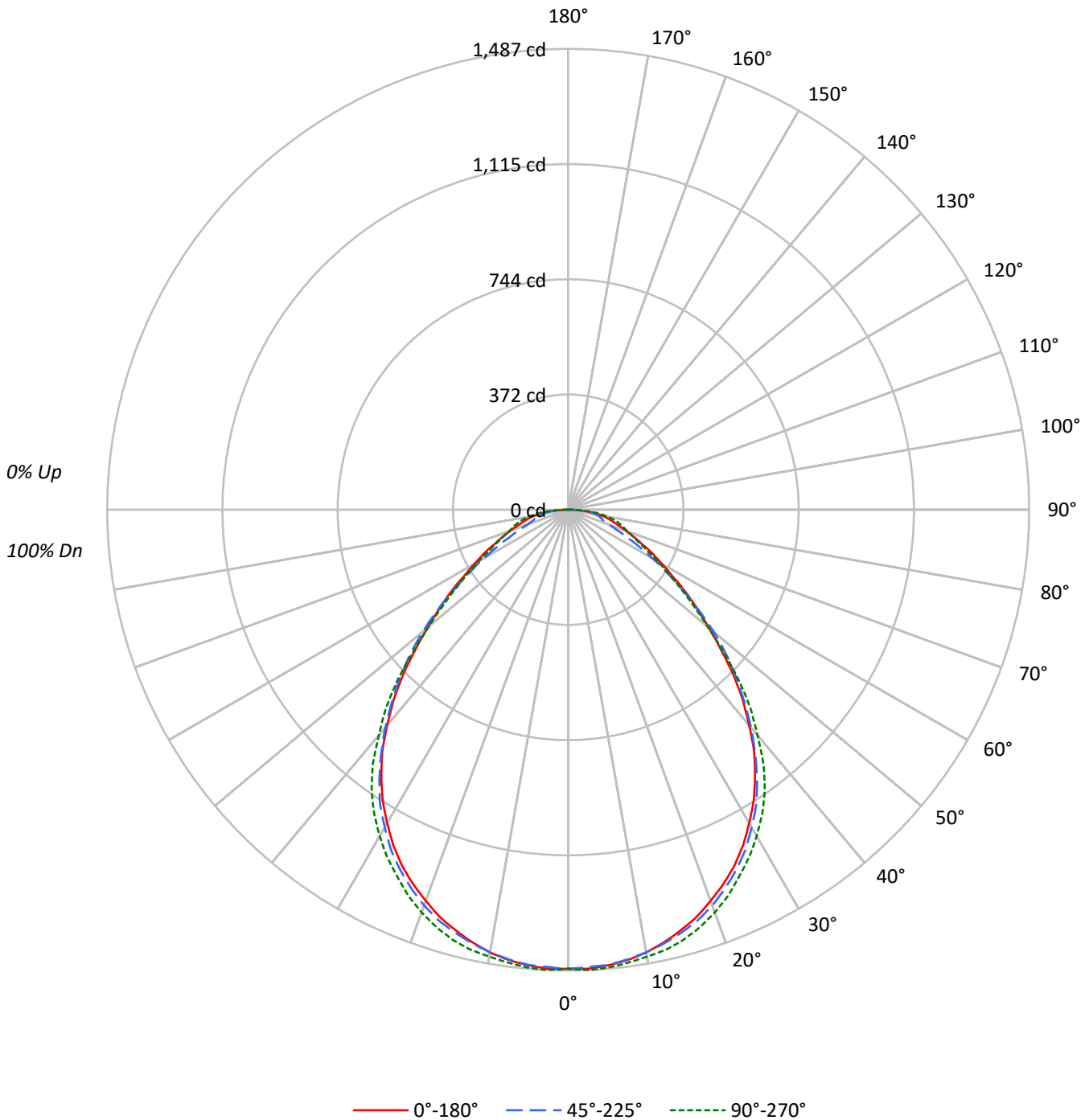
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°	45°	90°
0°	3987	3987	3987
5°	3988	3982	4006
10°	3964	3962	4001
15°	3914	3935	4004
20°	3846	3891	3960
25°	3764	3807	3876
30°	3628	3677	3778
35°	3450	3489	3631
40°	3190	3224	3337
45°	2865	2917	2963
50°	2477	2565	2452
55°	2162	2105	2076
60°	1872	1686	1799
65°	1673	1323	1616
70°	1552	1095	1594
75°	1549	1158	1769
80°	1717	1457	1994
85°	1791	1581	2257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	4.3
10°-20°	399.3	12.3
20°-30°	590.6	18.3
30°-40°	666.4	20.6
40°-50°	587.5	18.2
50°-60°	403.0	12.5
60°-70°	237.8	7.4
70°-80°	148.4	4.6
80°-90°	61.9	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°	1130.1	34.9
0°-40°	1796.5	55.5
0°-60°	2787.0	86.1
0°-90°	3235.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3235.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1476	1473	1474	1479	1483	140
15°	1405	1406	1412	1430	1437	396
25°	1268	1272	1282	1299	1305	582
35°	1050	1059	1062	1088	1105	654
45°	753	757	766	771	778	578
55°	461	449	449	434	443	413
65°	263	231	208	240	254	265
75°	149	134	111	156	170	160
85°	58	54	51	67	73	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1482.3	1478.5	1477.1	1483.1	1486.9
5°	1476.3	1473.3	1474.1	1479.3	1483.1
7.5°	1465.8	1463.6	1463.6	1470.9	1474.7
10°	1450.6	1450.0	1450.0	1459.0	1464.2
12.5°	1429.7	1430.3	1433.3	1445.5	1454.4
15°	1404.8	1406.2	1412.4	1429.7	1437.1
17.5°	1377.7	1377.7	1389.7	1403.2	1412.4
20°	1343.1	1345.2	1358.8	1373.9	1382.9
22.5°	1307.6	1311.4	1322.7	1340.1	1348.2
25°	1267.8	1272.3	1282.1	1298.6	1305.4
27.5°	1221.1	1227.1	1237.7	1249.6	1264.0
30°	1167.6	1176.7	1183.5	1200.0	1215.8
32.5°	1113.4	1121.7	1129.3	1146.6	1164.6
35°	1050.2	1059.2	1062.2	1087.9	1105.2
37.5°	985.5	989.3	990.7	1016.4	1035.1
40°	908.0	915.4	917.7	938.1	950.0
42.5°	833.3	836.5	840.9	856.0	870.3
45°	752.8	756.6	766.4	770.9	778.5
47.5°	668.5	679.9	691.1	676.7	677.5
50°	591.6	600.8	612.8	585.7	585.7
52.5°	523.1	527.7	528.5	506.0	510.4
55°	460.8	449.4	448.6	433.7	442.6
57.5°	398.2	383.3	377.9	373.3	383.9
60°	347.8	320.7	313.2	319.9	334.3
62.5°	306.4	271.7	257.4	274.7	287.7
65°	262.8	231.1	207.8	240.2	253.8
67.5°	228.9	198.8	168.7	214.5	224.3
70°	197.2	173.9	139.2	195.0	202.6
72.5°	171.7	153.6	120.5	176.1	185.3
75°	149.0	134.1	111.4	155.8	170.1
77.5°	131.1	114.3	104.0	134.7	152.0
80°	110.8	94.0	94.0	113.0	128.7
82.5°	87.3	73.7	76.1	91.8	103.2
85°	58.0	54.2	51.2	66.9	73.1
87.5°	29.3	30.1	27.1	34.7	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)