

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: P476064

Luminaire Tested: **22GR-LD5-32-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476064  
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-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3238.3 lumens  
Efficiency: N/A  
Efficacy: 129.5 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

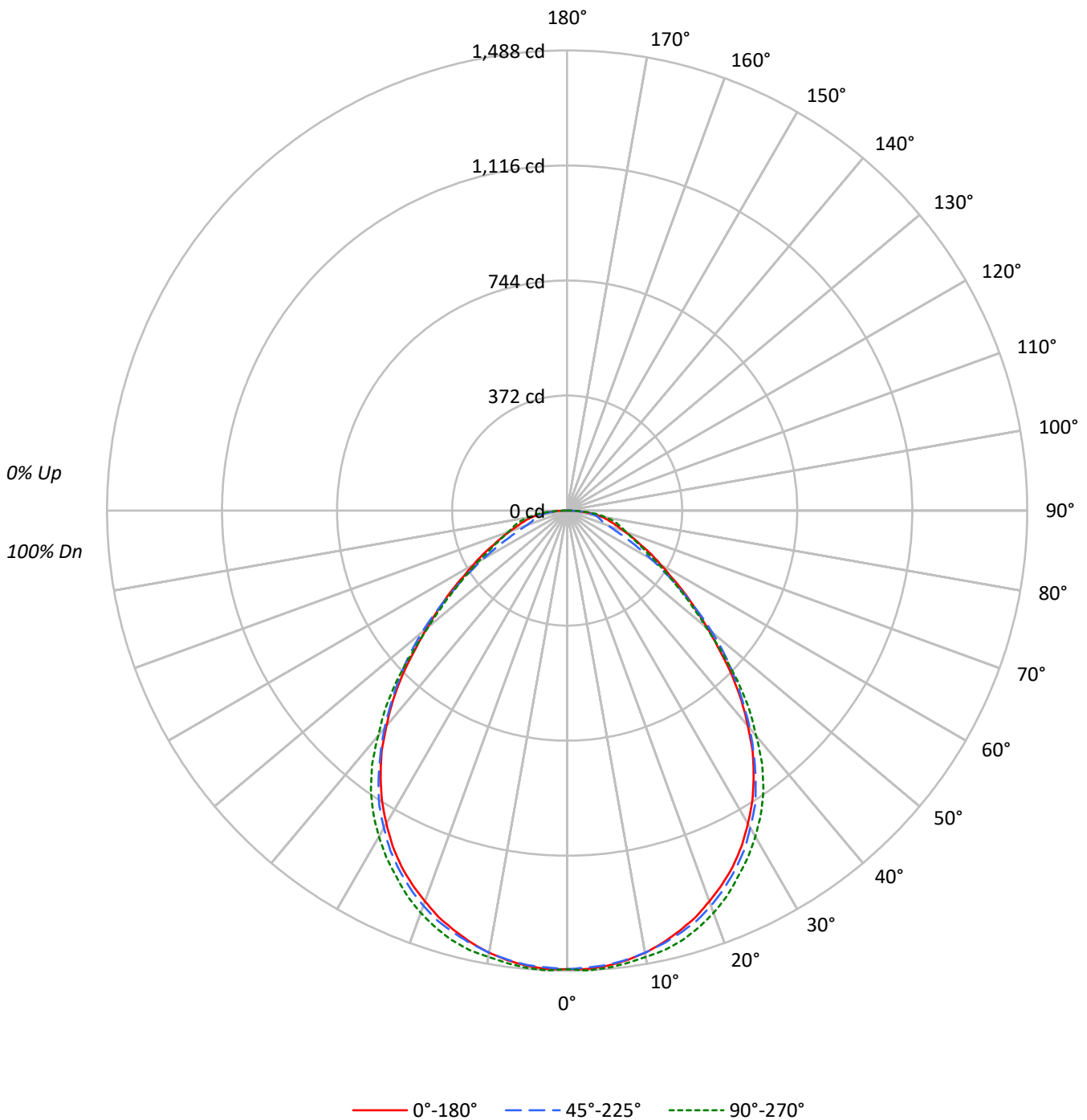
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P476064

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P476064

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L850-CD1-U

**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°	3991	3991	3991
5°	3992	3986	4010
10°	3968	3966	4005
15°	3918	3939	4008
20°	3850	3895	3964
25°	3768	3811	3880
30°	3631	3681	3782
35°	3454	3493	3634
40°	3193	3227	3341
45°	2868	2919	2966
50°	2479	2568	2454
55°	2164	2107	2079
60°	1874	1687	1801
65°	1675	1324	1617
70°	1553	1097	1596
75°	1551	1159	1771
80°	1719	1458	1996
85°	1791	1581	2260



TEST NUMBER: P476064

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	4.3
10°-20°	399.7	12.3
20°-30°	591.2	18.3
30°-40°	667.1	20.6
40°-50°	588.1	18.2
50°-60°	403.4	12.5
60°-70°	238.1	7.4
70°-80°	148.5	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°	1131.2	34.9
0°-40°	1798.3	55.5
0°-60°	2789.8	86.1
0°-90°	3238.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1478	1475	1476	1481	1485	140
15°	1406	1408	1414	1431	1438	396
25°	1269	1274	1283	1300	1307	583
35°	1051	1060	1063	1089	1106	655
45°	754	757	767	772	779	579
55°	461	450	449	434	443	414
65°	263	231	208	240	254	265
75°	149	134	112	156	170	160
85°	58	54	51	67	73	63
90°	0	0	0	0	0	



TEST NUMBER: P476064

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1483.0	1483.0	1483.0	1483.0	1483.0
2.5°	1483.8	1480.0	1478.6	1484.6	1488.3
5°	1477.8	1474.8	1475.6	1480.8	1484.6
7.5°	1467.2	1465.0	1465.0	1472.4	1476.2
10°	1452.1	1451.5	1451.5	1460.4	1465.6
12.5°	1431.1	1431.7	1434.7	1446.9	1455.8
15°	1406.2	1407.6	1413.8	1431.1	1438.5
17.5°	1379.1	1379.1	1391.0	1404.6	1413.8
20°	1344.4	1346.6	1360.1	1375.3	1384.3
22.5°	1308.9	1312.7	1324.0	1341.4	1349.6
25°	1269.0	1273.6	1283.4	1299.9	1306.7
27.5°	1222.3	1228.3	1238.9	1250.9	1265.2
30°	1168.7	1177.9	1184.7	1201.2	1217.0
32.5°	1114.5	1122.8	1130.4	1147.8	1165.7
35°	1051.3	1060.2	1063.2	1088.9	1106.3
37.5°	986.4	990.2	991.6	1017.4	1036.1
40°	908.9	916.3	918.7	939.0	951.0
42.5°	834.1	837.3	841.7	856.8	871.2
45°	753.5	757.3	767.1	771.7	779.3
47.5°	669.2	680.6	691.7	677.4	678.2
50°	592.2	601.4	613.4	586.2	586.2
52.5°	523.6	528.2	529.0	506.5	510.9
55°	461.2	449.9	449.1	434.1	443.1
57.5°	398.6	383.7	378.3	373.7	384.2
60°	348.2	321.0	313.5	320.2	334.6
62.5°	306.7	272.0	257.6	275.0	287.9
65°	263.0	231.3	208.0	240.5	254.0
67.5°	229.1	199.0	168.9	214.8	224.5
70°	197.4	174.1	139.4	195.2	202.8
72.5°	171.9	153.7	120.6	176.3	185.4
75°	149.2	134.2	111.5	155.9	170.3
77.5°	131.2	114.5	104.1	134.8	152.1
80°	110.9	94.1	94.1	113.1	128.8
82.5°	87.3	73.8	76.2	91.9	103.3
85°	58.0	54.2	51.2	67.0	73.2
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)