

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: P476112

Luminaire Tested: **22GR-LD5-32-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476112  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3351.8 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

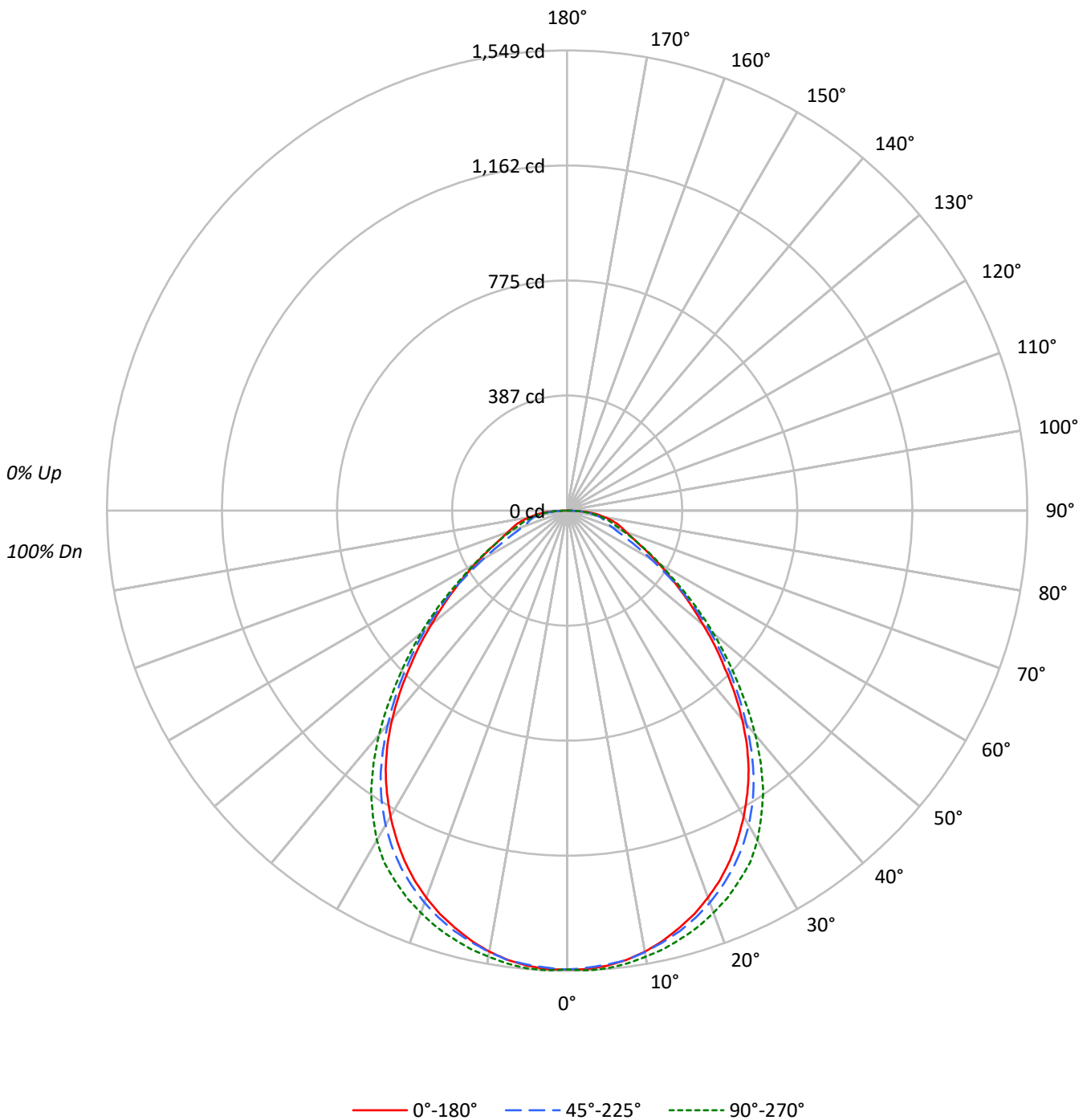
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

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

	0°	45°	90°
0°	4158	4158	4158
5°	4155	4144	4178
10°	4120	4123	4167
15°	4054	4082	4152
20°	3970	4022	4125
25°	3854	3933	4077
30°	3694	3798	3980
35°	3499	3597	3779
40°	3218	3297	3462
45°	2858	2962	3069
50°	2496	2611	2689
55°	2170	2200	2281
60°	1910	1749	1948
65°	1697	1398	1706
70°	1666	1242	1575
75°	1821	1365	1608
80°	1999	1621	1720
85°	2387	1883	1927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.0	4.4
10°-20°	414.1	12.4
20°-30°	611.3	18.2
30°-40°	684.1	20.4
40°-50°	600.7	17.9
50°-60°	425.0	12.7
60°-70°	247.4	7.4
70°-80°	154.2	4.6
80°-90°	69.0	2.1
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°	1171.4	34.9
0°-40°	1855.5	55.4
0°-60°	2881.2	86.0
0°-90°	3351.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1538	1534	1534	1542	1547	146
15°	1455	1458	1465	1481	1490	410
25°	1298	1304	1325	1356	1373	596
35°	1065	1070	1095	1128	1150	662
45°	751	760	778	797	806	581
55°	463	472	469	477	486	418
65°	266	245	220	239	268	270
75°	175	151	131	134	155	183
85°	77	80	61	59	62	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1545.0	1541.9	1540.3	1545.8	1548.9
5°	1538.0	1534.1	1534.1	1541.9	1546.7
7.5°	1525.6	1521.7	1526.2	1533.2	1538.0
10°	1507.6	1505.9	1509.0	1518.6	1524.8
12.5°	1484.0	1484.8	1487.9	1502.8	1510.7
15°	1455.1	1458.2	1465.4	1480.9	1490.2
17.5°	1423.8	1426.3	1437.1	1455.1	1468.5
20°	1386.4	1391.0	1404.4	1427.0	1440.4
22.5°	1344.9	1350.4	1366.8	1394.3	1410.6
25°	1298.1	1303.5	1324.6	1355.8	1373.2
27.5°	1245.0	1253.5	1277.0	1311.4	1334.7
30°	1188.7	1195.8	1222.2	1261.3	1281.0
32.5°	1128.6	1137.1	1162.1	1199.5	1216.9
35°	1065.1	1069.9	1094.9	1127.7	1150.3
37.5°	993.3	995.6	1019.0	1049.6	1069.9
40°	916.0	917.5	938.5	967.5	985.5
42.5°	835.4	836.2	858.9	880.7	896.4
45°	751.0	759.7	778.3	797.1	806.4
47.5°	675.1	681.5	698.7	715.0	723.7
50°	596.3	611.8	623.6	632.3	642.4
52.5°	528.3	541.5	544.6	554.8	563.5
55°	462.6	472.1	469.0	477.4	486.1
57.5°	407.1	402.4	392.3	407.1	418.1
60°	354.8	342.2	325.0	345.5	361.9
62.5°	307.9	287.6	266.5	286.8	314.1
65°	266.5	245.4	219.6	239.2	268.0
67.5°	235.3	213.4	182.8	202.4	231.4
70°	211.7	189.2	157.8	174.3	200.2
72.5°	193.1	168.7	141.4	152.4	174.3
75°	175.1	150.7	131.3	134.4	154.7
77.5°	154.0	136.1	120.3	118.7	134.4
80°	129.0	123.4	104.6	102.4	111.0
82.5°	106.3	104.0	86.0	83.5	86.8
85°	77.3	80.4	61.0	59.3	62.4
87.5°	40.7	44.5	32.1	33.7	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)