

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: P475778

Luminaire Tested: **24GR-LD5-38-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475778  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-A125-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3828.4 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

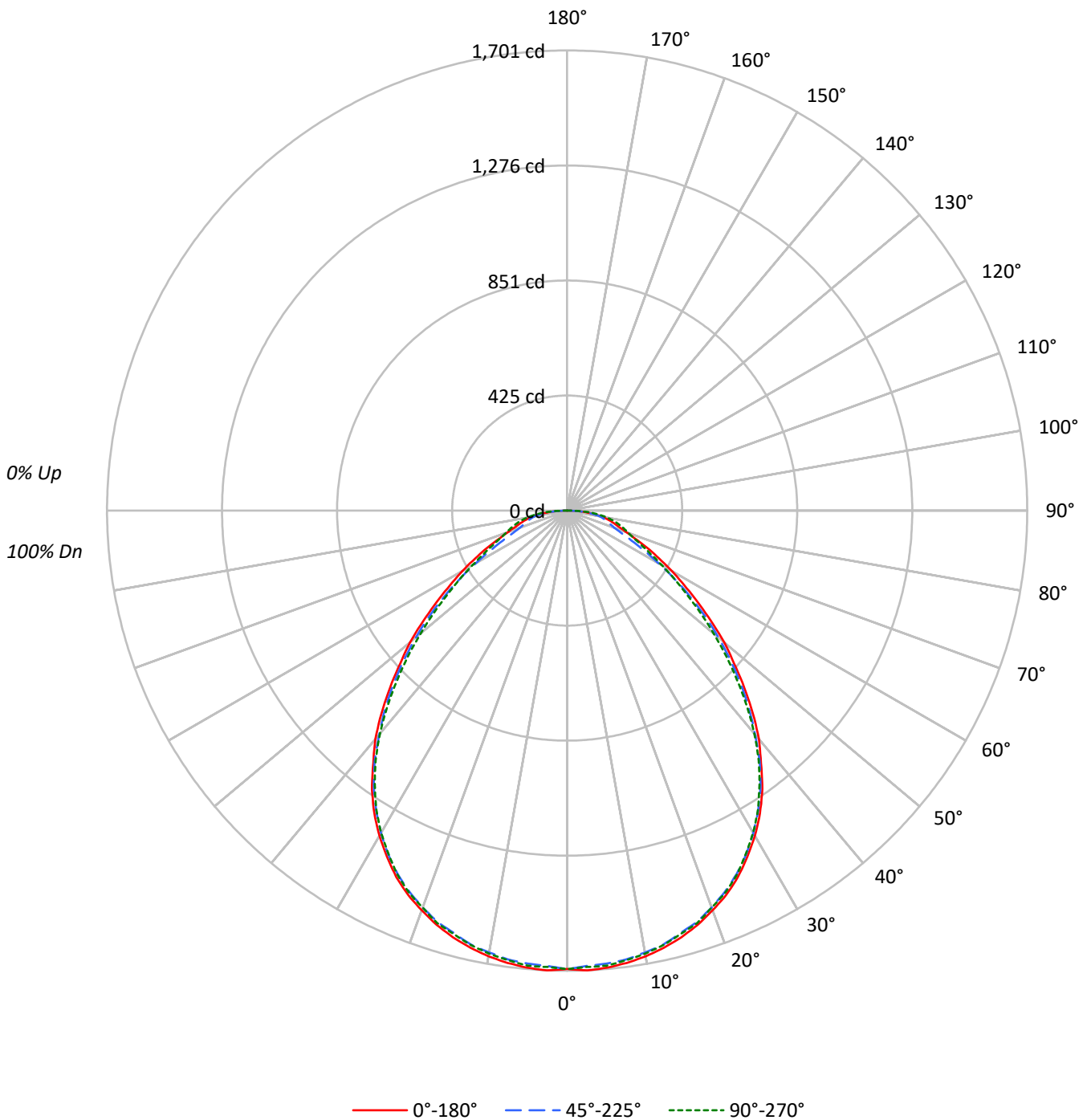
Input Watts (W): 26.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475778

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475778

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L835-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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	2280	2280	2280
5°	2291	2271	2280
10°	2286	2266	2272
15°	2274	2252	2257
20°	2251	2235	2236
25°	2219	2201	2204
30°	2157	2138	2137
35°	2067	2046	2036
40°	1936	1899	1891
45°	1763	1727	1694
50°	1587	1531	1481
55°	1377	1302	1263
60°	1203	1050	1086
65°	1040	834	966
70°	918	732	943
75°	921	795	1032
80°	1010	945	1168
85°	1064	1030	1338



TEST NUMBER: P475778

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	4.2
10°-20°	457.6	12.0
20°-30°	682.2	17.8
30°-40°	775.6	20.3
40°-50°	699.0	18.3
50°-60°	503.5	13.2
60°-70°	292.8	7.6
70°-80°	179.2	4.7
80°-90°	78.4	2.0
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°	1300.0	34.0
0°-40°	2075.5	54.2
0°-60°	3277.9	85.6
0°-90°	3828.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1696	1684	1681	1685	1688	161
15°	1633	1624	1617	1620	1621	460
25°	1494	1485	1482	1480	1485	686
35°	1258	1249	1246	1238	1240	783
45°	926	916	908	894	890	715
55°	587	573	555	550	539	529
65°	327	294	262	282	303	327
75°	177	161	153	174	198	189
85°	69	68	67	90	87	73
90°	0	0	0	0	0	



TEST NUMBER: P475778

CATALOG NUMBER: 24GR-LD5-38-A125-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1694.5	1694.5	1694.5	1694.5	1694.5
2.5°	1701.3	1692.2	1684.6	1685.0	1688.8
5°	1696.0	1684.2	1681.2	1684.6	1688.4
7.5°	1686.5	1675.5	1673.6	1671.7	1676.3
10°	1672.9	1665.3	1658.5	1660.4	1663.0
12.5°	1654.7	1648.3	1643.3	1639.5	1645.2
15°	1632.7	1623.6	1616.8	1619.5	1620.6
17.5°	1605.1	1596.4	1594.5	1593.0	1598.6
20°	1572.1	1566.8	1561.1	1562.7	1561.9
22.5°	1537.3	1529.3	1524.8	1522.5	1528.6
25°	1494.5	1485.4	1482.4	1480.1	1484.6
27.5°	1442.2	1437.3	1433.1	1430.1	1430.5
30°	1388.4	1383.5	1375.9	1373.7	1375.2
32.5°	1326.7	1321.0	1314.2	1307.4	1312.3
35°	1258.2	1249.4	1245.7	1238.5	1239.6
37.5°	1177.1	1173.3	1169.9	1160.4	1163.5
40°	1102.5	1092.3	1080.9	1075.2	1076.4
42.5°	1016.1	1005.5	996.5	988.5	984.7
45°	926.4	915.8	907.8	893.8	890.4
47.5°	837.0	827.2	818.4	807.5	797.6
50°	758.2	740.0	731.3	720.0	707.5
52.5°	669.6	659.0	642.0	632.5	621.1
55°	587.0	573.0	555.2	549.5	538.6
57.5°	512.8	497.7	471.5	469.3	468.9
60°	446.9	426.5	390.1	392.7	403.7
62.5°	382.9	353.7	320.8	332.5	348.8
65°	326.8	293.9	262.1	282.5	303.4
67.5°	273.1	243.5	216.6	243.9	265.9
70°	233.3	208.7	186.0	215.1	239.7
72.5°	200.0	181.0	166.3	192.8	219.3
75°	177.2	160.6	153.0	174.2	198.5
77.5°	156.0	141.3	139.0	157.9	175.7
80°	130.3	120.1	122.0	141.3	150.7
82.5°	99.2	96.2	96.6	120.8	122.7
85°	68.9	68.2	66.7	90.5	86.7
87.5°	34.8	35.6	35.2	51.5	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)