

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: P475603

Luminaire Tested: **24GR-LD5-72-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475603  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-F125-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7114.8 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

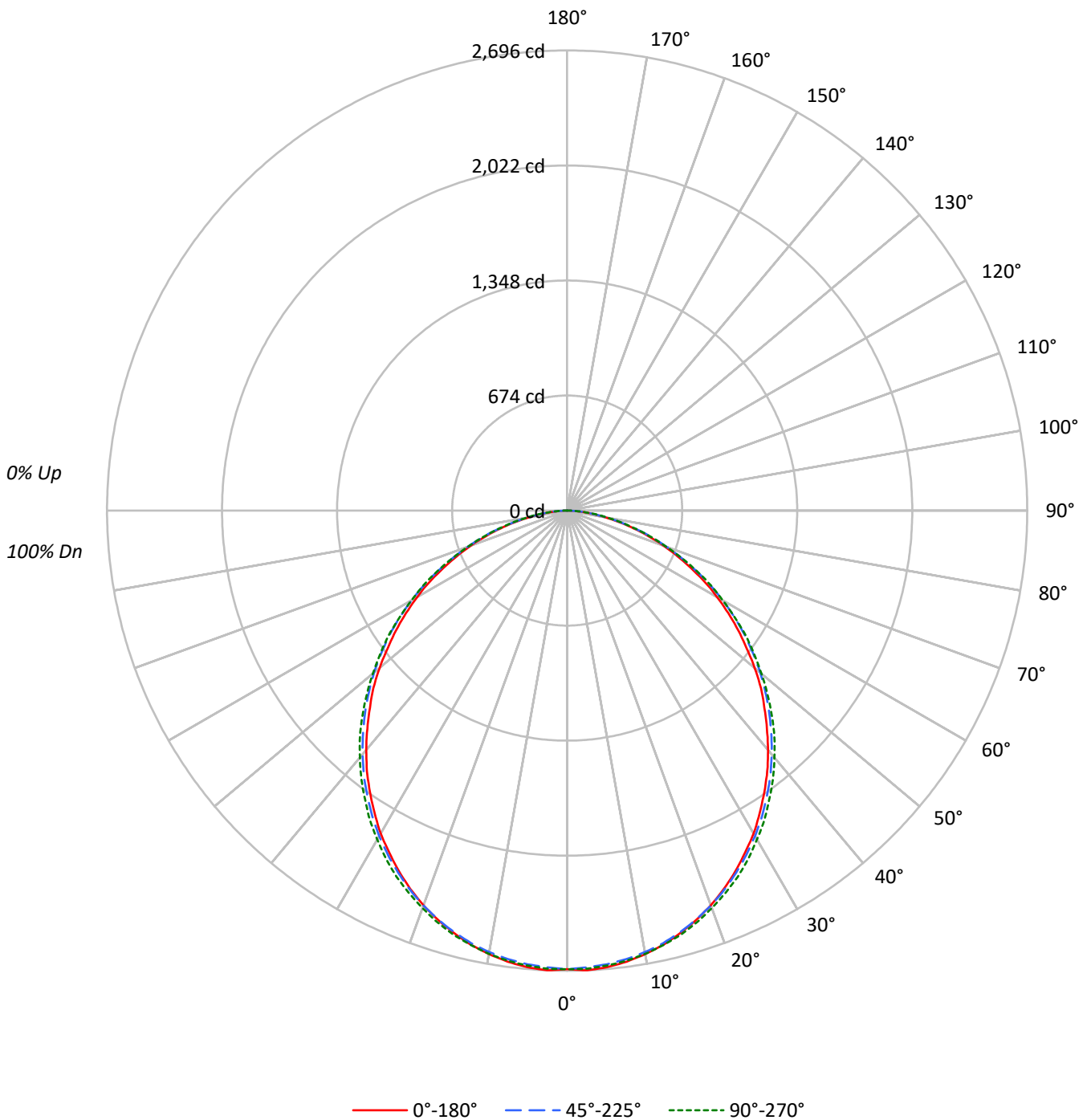
Input Watts (W): 48.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475603

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475603

CATALOG NUMBER: 24GR-LD5-72-F125-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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3615	3615	3615
5°	3626	3603	3614
10°	3605	3588	3603
15°	3570	3562	3584
20°	3524	3525	3549
25°	3463	3476	3513
30°	3395	3421	3456
35°	3308	3353	3392
40°	3217	3275	3318
45°	3111	3186	3227
50°	3002	3090	3111
55°	2872	2975	2997
60°	2735	2828	2832
65°	2555	2654	2668
70°	2367	2434	2426
75°	2103	2179	2185
80°	1760	1822	1891
85°	1320	1420	1470



TEST NUMBER: P475603

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.9	3.6
10°-20°	722.3	10.2
20°-30°	1079.7	15.2
30°-40°	1275.6	17.9
40°-50°	1287.7	18.1
50°-60°	1123.8	15.8
60°-70°	819.3	11.5
70°-80°	441.9	6.2
80°-90°	110.6	1.6
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°	2055.9	28.9
0°-40°	3331.5	46.8
0°-60°	5743.1	80.7
0°-90°	7114.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7114.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2687	2687	2687	2687	2687	
5°	2685	2675	2668	2670	2676	255
15°	2563	2558	2557	2563	2573	723
25°	2332	2333	2342	2357	2366	1074
35°	2014	2019	2041	2061	2065	1260
45°	1635	1646	1675	1696	1696	1262
55°	1224	1239	1268	1273	1278	1094
65°	803	820	834	835	838	798
75°	404	409	419	421	420	430
85°	86	88	92	96	95	104
90°	0	0	0	0	0	



TEST NUMBER: P475603

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2686.9	2686.9	2686.9	2686.9	2686.9
2.5°	2695.8	2686.1	2678.5	2680.1	2686.5
5°	2684.9	2675.2	2668.0	2670.4	2675.6
7.5°	2665.6	2656.7	2651.0	2653.5	2660.3
10°	2638.9	2631.7	2626.4	2630.1	2637.3
12.5°	2605.1	2597.8	2595.8	2601.0	2607.5
15°	2562.7	2557.5	2557.1	2563.1	2572.8
17.5°	2515.1	2509.9	2512.7	2520.8	2529.2
20°	2461.1	2456.2	2461.9	2472.8	2478.4
22.5°	2399.4	2395.3	2405.4	2416.7	2424.0
25°	2332.4	2332.8	2341.7	2356.6	2366.3
27.5°	2258.2	2261.0	2274.3	2288.9	2298.5
30°	2185.2	2182.8	2201.7	2217.5	2224.7
32.5°	2100.5	2101.7	2123.9	2140.0	2150.9
35°	2013.8	2019.4	2041.2	2061.0	2065.0
37.5°	1926.3	1930.3	1956.5	1975.9	1981.1
40°	1831.5	1838.7	1864.6	1882.7	1889.2
42.5°	1732.7	1741.9	1769.8	1788.7	1797.2
45°	1634.7	1646.4	1674.6	1695.6	1696.0
47.5°	1539.9	1548.4	1575.8	1594.3	1592.3
50°	1434.2	1446.7	1476.2	1487.5	1486.2
52.5°	1326.1	1345.1	1372.1	1381.0	1379.8
55°	1224.5	1239.4	1268.4	1273.3	1277.7
57.5°	1119.2	1132.1	1163.6	1165.6	1164.8
60°	1016.4	1028.1	1051.1	1056.7	1052.3
62.5°	912.7	924.4	945.0	950.6	949.8
65°	802.6	820.0	833.7	835.3	838.1
67.5°	700.2	711.1	724.4	726.8	724.8
70°	601.8	611.0	618.7	620.3	616.7
72.5°	500.1	508.6	519.5	521.5	517.5
75°	404.5	408.6	419.1	420.7	420.3
77.5°	311.8	315.0	322.7	328.7	329.5
80°	227.1	228.3	235.1	239.6	244.0
82.5°	150.4	153.7	158.9	163.3	167.4
85°	85.5	87.5	92.0	96.4	95.2
87.5°	33.1	37.5	37.9	42.3	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)