

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: P475723

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475723  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-A-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6901.7 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

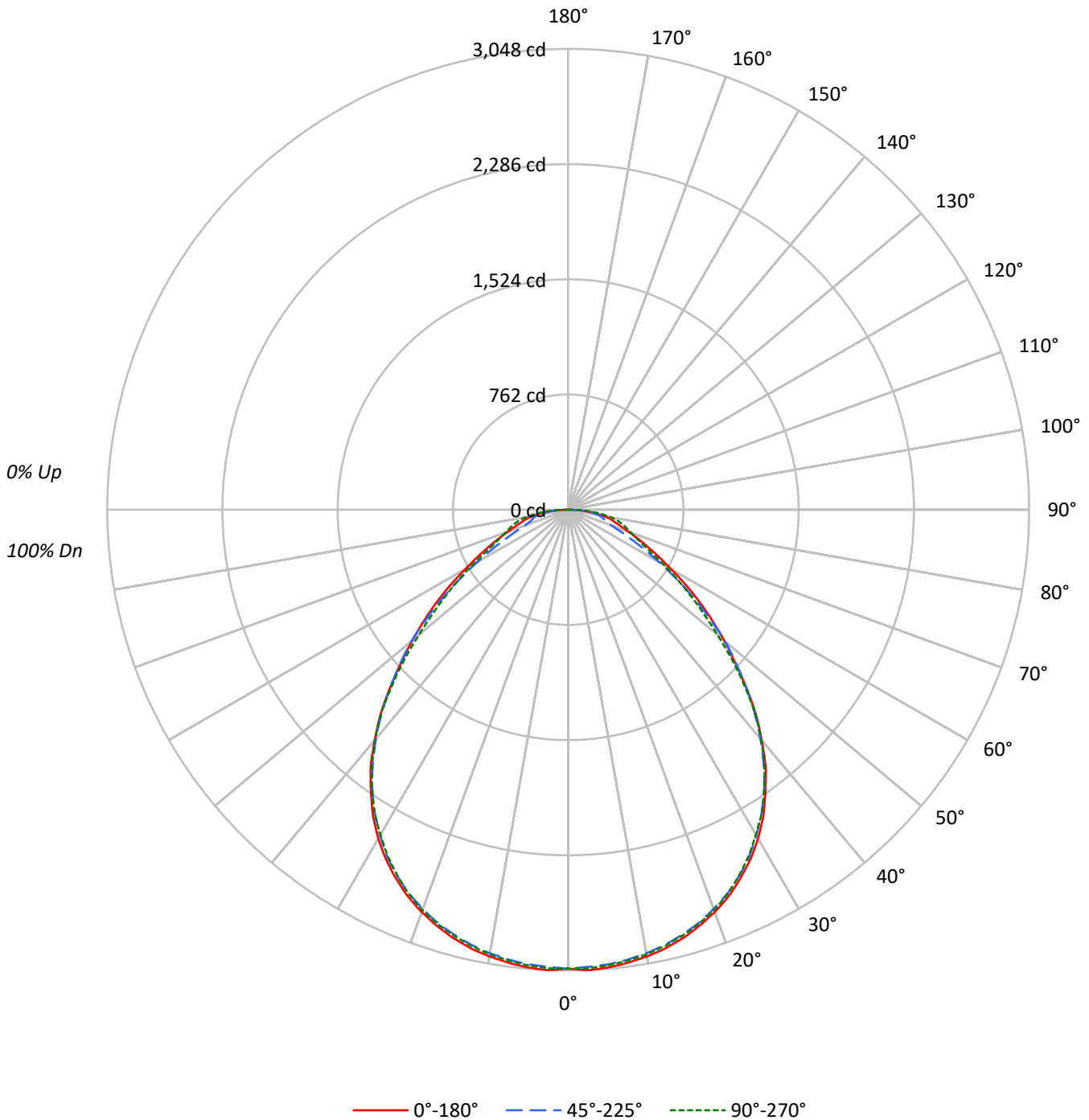
Input Watts (W): 48.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	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°	4084	4084	4084
5°	4105	4077	4086
10°	4098	4070	4079
15°	4086	4054	4064
20°	4055	4025	4036
25°	3998	3969	3966
30°	3901	3865	3856
35°	3734	3710	3710
40°	3494	3473	3488
45°	3172	3167	3141
50°	2814	2835	2696
55°	2472	2364	2308
60°	2105	1867	1964
65°	1839	1452	1733
70°	1663	1195	1730
75°	1664	1275	1932
80°	1832	1569	2211
85°	1888	1763	2413



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.4	4.2
10°-20°	822.9	11.9
20°-30°	1231.0	17.8
30°-40°	1408.7	20.4
40°-50°	1276.3	18.5
50°-60°	903.6	13.1
60°-70°	522.0	7.6
70°-80°	316.5	4.6
80°-90°	133.2	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°	2341.4	33.9
0°-40°	3750.1	54.3
0°-60°	5930.0	85.9
0°-90°	6901.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6901.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	3039	3028	3019	3018	3025	289
15°	2934	2922	2910	2910	2917	827
25°	2693	2682	2673	2671	2671	1239
35°	2273	2263	2259	2255	2259	1418
45°	1667	1664	1664	1652	1651	1284
55°	1054	1019	1008	978	984	945
65°	578	518	456	522	544	581
75°	320	287	245	315	372	343
85°	122	110	114	146	156	131
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3035.6	3035.6	3035.6	3035.6	3035.6
2.5°	3048.5	3036.9	3026.7	3028.1	3035.6
5°	3039.0	3028.1	3018.6	3017.9	3025.4
7.5°	3022.7	3013.1	3002.3	3002.3	3008.4
10°	2999.6	2990.0	2979.2	2978.5	2985.3
12.5°	2972.4	2960.1	2948.6	2948.6	2956.1
15°	2933.6	2922.1	2910.5	2910.5	2917.3
17.5°	2886.1	2875.9	2866.4	2867.0	2872.5
20°	2831.7	2821.5	2811.3	2812.7	2818.8
22.5°	2769.2	2757.0	2748.8	2748.1	2752.2
25°	2693.1	2682.2	2673.4	2671.3	2671.3
27.5°	2608.1	2596.6	2590.5	2580.9	2583.7
30°	2511.0	2498.7	2487.8	2482.4	2481.7
32.5°	2401.5	2389.3	2379.8	2379.1	2381.8
35°	2273.1	2262.9	2258.8	2255.4	2258.8
37.5°	2146.0	2127.0	2123.6	2122.9	2131.8
40°	1989.1	1982.3	1977.5	1974.1	1985.7
42.5°	1838.2	1824.6	1826.0	1813.0	1833.4
45°	1666.9	1663.5	1664.2	1652.0	1650.6
47.5°	1497.1	1496.4	1506.6	1472.6	1470.6
50°	1344.2	1337.4	1354.4	1302.0	1287.8
52.5°	1198.1	1179.0	1173.6	1126.0	1126.0
55°	1054.0	1018.7	1007.8	977.9	984.0
57.5°	917.4	867.1	844.7	844.0	854.2
60°	782.2	725.1	693.8	718.3	729.8
62.5°	674.8	612.3	564.7	610.9	621.8
65°	577.6	517.8	456.0	521.9	544.3
67.5°	494.0	444.4	367.0	453.3	483.2
70°	422.7	378.5	303.8	399.6	439.7
72.5°	366.3	329.6	264.3	356.8	405.0
75°	320.1	286.8	245.3	315.3	371.7
77.5°	283.4	244.0	229.7	275.9	333.7
80°	236.5	200.5	202.5	237.2	285.4
82.5°	182.1	154.9	163.1	196.4	224.3
85°	122.3	110.1	114.2	146.1	156.3
87.5°	60.5	58.4	62.5	85.6	85.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)