

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: P475767

Luminaire Tested: **24GR-LD5-64-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475767  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-A125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6140.9 lumens  
Efficiency: N/A  
Efficacy: 141.5 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

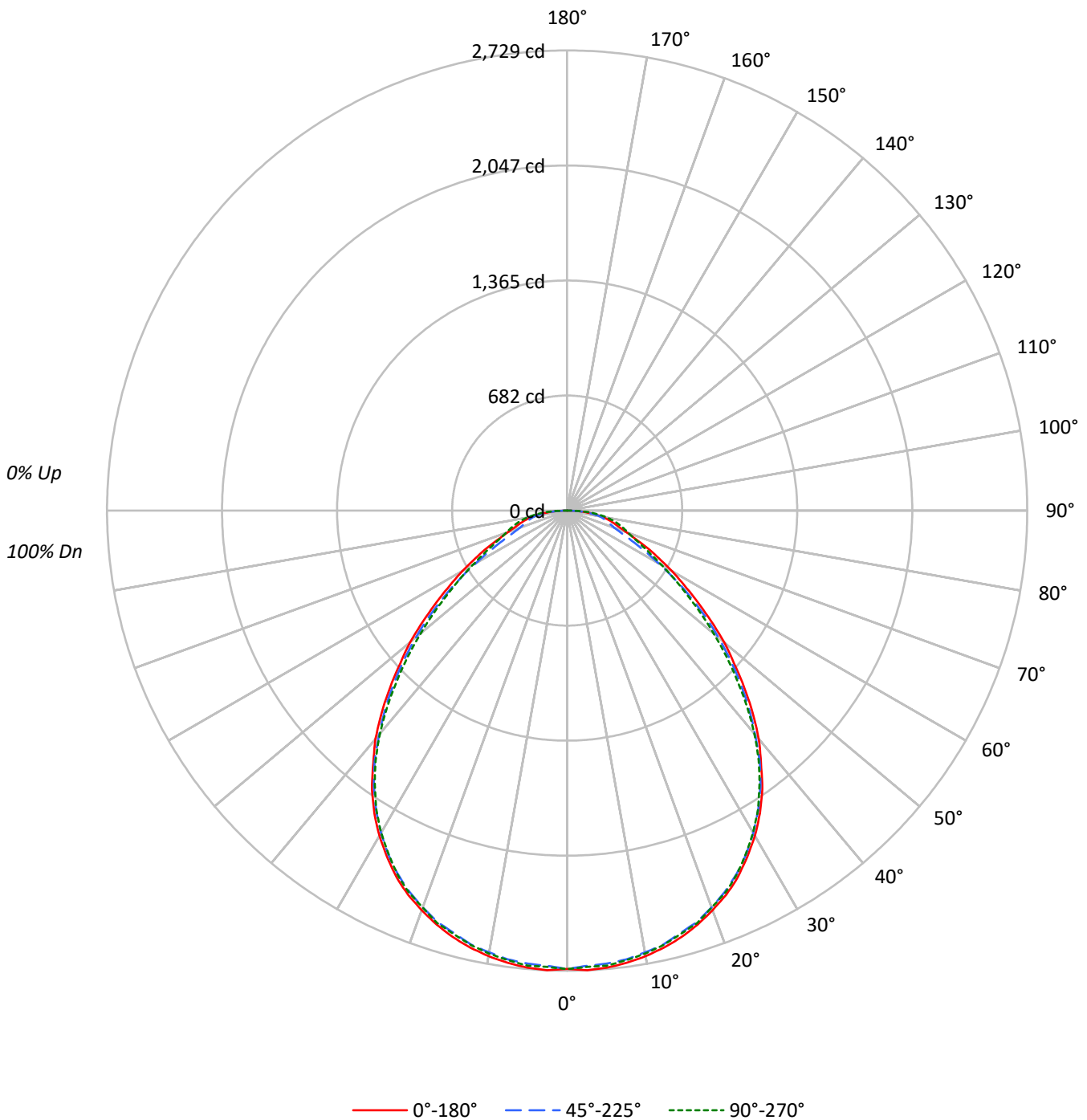
Input Watts (W): 43.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

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

	0°	45°	90°
0°	3657	3657	3657
5°	3674	3642	3658
10°	3666	3635	3644
15°	3648	3612	3621
20°	3611	3585	3587
25°	3559	3530	3535
30°	3460	3429	3427
35°	3315	3282	3266
40°	3106	3045	3032
45°	2828	2771	2718
50°	2546	2456	2375
55°	2209	2089	2027
60°	1929	1684	1743
65°	1669	1338	1549
70°	1472	1173	1513
75°	1478	1276	1655
80°	1619	1516	1874
85°	1707	1650	2147



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.9	4.2
10°-20°	734.0	12.0
20°-30°	1094.3	17.8
30°-40°	1244.0	20.3
40°-50°	1121.1	18.3
50°-60°	807.6	13.2
60°-70°	469.7	7.6
70°-80°	287.4	4.7
80°-90°	125.8	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°	2085.2	34.0
0°-40°	3329.2	54.2
0°-60°	5257.9	85.6
0°-90°	6140.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6140.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2720	2702	2697	2702	2708	258
15°	2619	2604	2593	2598	2600	738
25°	2397	2383	2378	2374	2381	1101
35°	2018	2004	1998	1986	1988	1256
45°	1486	1469	1456	1434	1428	1146
55°	942	919	891	882	864	849
65°	524	471	420	453	487	524
75°	284	258	245	280	318	303
85°	111	109	107	145	139	117
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2718.0	2718.0	2718.0	2718.0	2718.0
2.5°	2728.9	2714.3	2702.2	2702.8	2708.9
5°	2720.4	2701.6	2696.7	2702.2	2708.2
7.5°	2705.2	2687.6	2684.6	2681.5	2688.8
10°	2683.3	2671.2	2660.3	2663.3	2667.5
12.5°	2654.2	2643.9	2636.0	2629.9	2639.0
15°	2618.9	2604.4	2593.4	2597.7	2599.5
17.5°	2574.6	2560.6	2557.6	2555.2	2564.3
20°	2521.7	2513.2	2504.1	2506.6	2505.3
22.5°	2465.9	2453.1	2445.8	2442.2	2451.9
25°	2397.2	2382.6	2377.8	2374.1	2381.4
27.5°	2313.4	2305.5	2298.8	2293.9	2294.5
30°	2227.1	2219.2	2207.1	2203.4	2205.8
32.5°	2128.1	2119.0	2108.0	2097.1	2105.0
35°	2018.1	2004.2	1998.1	1986.5	1988.4
37.5°	1888.1	1882.0	1876.6	1861.4	1866.2
40°	1768.4	1752.0	1733.8	1724.7	1726.5
42.5°	1629.9	1612.9	1598.3	1585.6	1579.5
45°	1486.0	1468.9	1456.2	1433.7	1428.2
47.5°	1342.6	1326.8	1312.8	1295.2	1279.4
50°	1216.2	1187.1	1173.1	1154.9	1134.8
52.5°	1074.1	1057.1	1029.7	1014.5	996.3
55°	941.6	919.2	890.6	881.5	863.9
57.5°	822.6	798.3	756.3	752.7	752.1
60°	716.9	684.0	625.7	630.0	647.6
62.5°	614.2	567.4	514.6	533.4	559.5
65°	524.3	471.4	420.4	453.2	486.6
67.5°	438.0	390.6	347.5	391.2	426.5
70°	374.2	334.7	298.3	345.1	384.5
72.5°	320.8	290.4	266.7	309.2	351.7
75°	284.3	257.6	245.4	279.5	318.3
77.5°	250.3	226.6	223.0	253.3	281.9
80°	209.0	192.6	195.6	226.6	241.8
82.5°	159.2	154.3	154.9	193.8	196.8
85°	110.6	109.4	106.9	145.2	139.1
87.5°	55.9	57.1	56.5	82.6	74.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)