

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: P475798

Luminaire Tested: **24GR-LD5-72-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475798  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-A125-UNV-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7279.4 lumens  
Efficiency: N/A  
Efficacy: 149.5 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

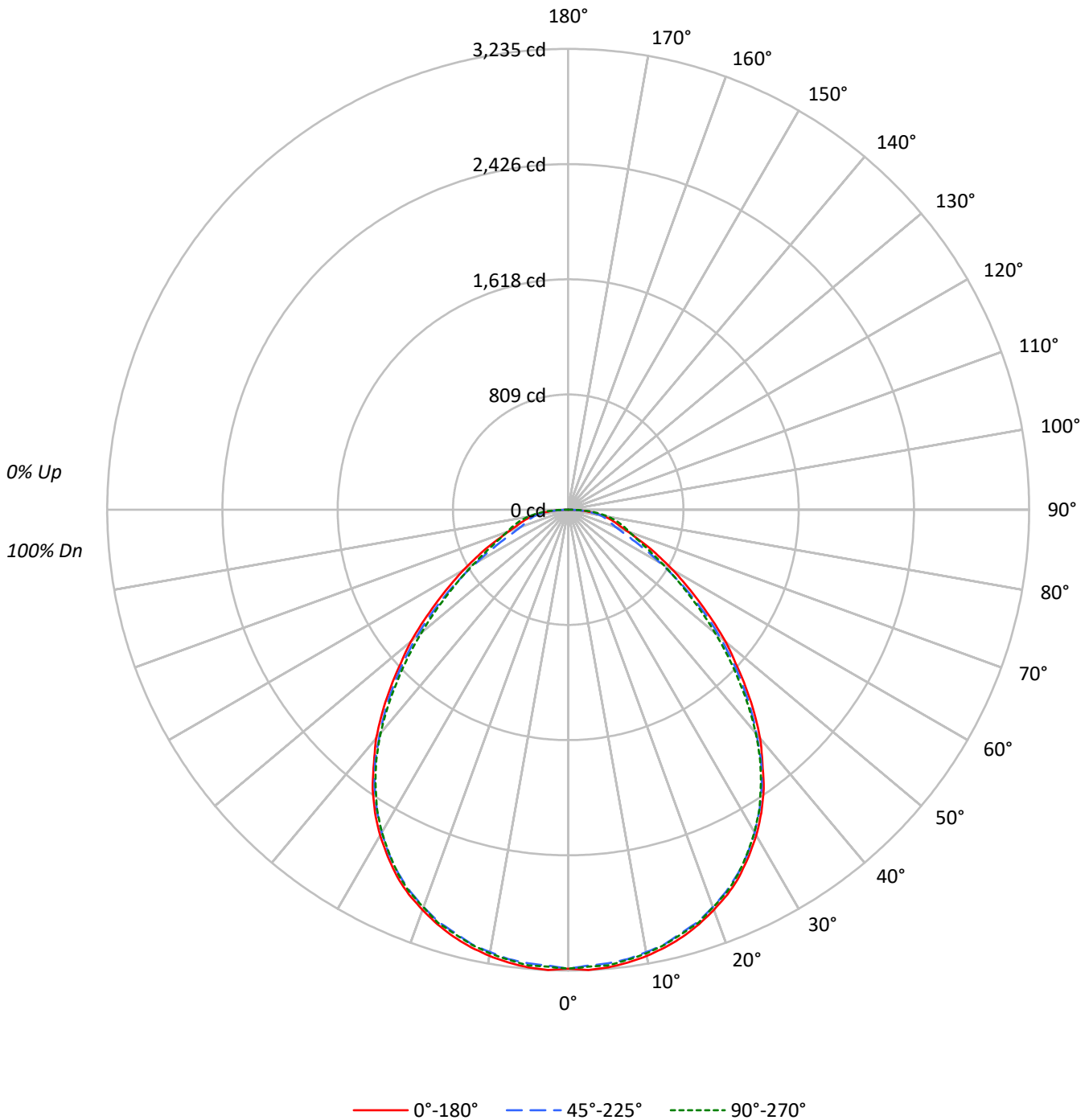
Input Watts (W): 48.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4335	4335	4335
5°	4356	4318	4336
10°	4346	4308	4320
15°	4324	4282	4292
20°	4280	4250	4252
25°	4219	4184	4191
30°	4102	4065	4062
35°	3929	3890	3871
40°	3682	3610	3595
45°	3352	3285	3222
50°	3018	2911	2816
55°	2618	2476	2402
60°	2287	1996	2066
65°	1979	1586	1836
70°	1745	1391	1793
75°	1752	1512	1962
80°	1919	1797	2221
85°	2024	1956	2546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.5	4.2
10°-20°	870.1	12.0
20°-30°	1297.2	17.8
30°-40°	1474.7	20.3
40°-50°	1329.0	18.3
50°-60°	957.3	13.2
60°-70°	556.8	7.6
70°-80°	340.7	4.7
80°-90°	149.1	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°	2471.8	34.0
0°-40°	3946.5	54.2
0°-60°	6232.8	85.6
0°-90°	7279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7279.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3222	3222	3222	3222	3222	
5°	3225	3202	3197	3203	3210	306
15°	3104	3087	3074	3079	3082	875
25°	2842	2824	2819	2814	2823	1305
35°	2392	2376	2368	2355	2357	1489
45°	1762	1741	1726	1700	1693	1359
55°	1116	1090	1056	1045	1024	1007
65°	622	559	498	537	577	622
75°	337	305	291	331	377	359
85°	131	130	127	172	165	139
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3221.9	3221.9	3221.9	3221.9	3221.9
2.5°	3234.9	3217.6	3203.2	3203.9	3211.1
5°	3224.8	3202.5	3196.7	3203.2	3210.4
7.5°	3206.8	3185.9	3182.3	3178.7	3187.3
10°	3180.9	3166.5	3153.5	3157.1	3162.1
12.5°	3146.3	3134.1	3124.7	3117.5	3128.3
15°	3104.5	3087.2	3074.3	3079.3	3081.5
17.5°	3052.0	3035.4	3031.8	3028.9	3039.7
20°	2989.3	2979.2	2968.4	2971.3	2969.9
22.5°	2923.1	2907.9	2899.3	2895.0	2906.5
25°	2841.7	2824.4	2818.6	2814.3	2823.0
27.5°	2742.3	2732.9	2725.0	2719.3	2720.0
30°	2640.0	2630.7	2616.3	2612.0	2614.8
32.5°	2522.7	2511.9	2498.9	2485.9	2495.3
35°	2392.3	2375.7	2368.5	2354.9	2357.0
37.5°	2238.2	2231.0	2224.5	2206.5	2212.3
40°	2096.3	2076.9	2055.3	2044.5	2046.6
42.5°	1932.1	1912.0	1894.7	1879.6	1872.4
45°	1761.5	1741.3	1726.2	1699.5	1693.1
47.5°	1591.5	1572.8	1556.2	1535.3	1516.6
50°	1441.7	1407.2	1390.6	1369.0	1345.2
52.5°	1273.2	1253.0	1220.6	1202.6	1181.0
55°	1116.2	1089.6	1055.7	1044.9	1024.0
57.5°	975.1	946.3	896.6	892.3	891.5
60°	849.8	810.9	741.7	746.8	767.7
62.5°	728.1	672.6	610.0	632.3	663.2
65°	621.5	558.8	498.3	537.2	576.8
67.5°	519.2	463.1	411.9	463.8	505.5
70°	443.6	396.8	353.6	409.0	455.8
72.5°	380.2	344.2	316.1	366.6	417.0
75°	337.0	305.3	290.9	331.3	377.4
77.5°	296.7	268.6	264.3	300.3	334.1
80°	247.7	228.3	231.9	268.6	286.6
82.5°	188.7	182.9	183.6	229.7	233.3
85°	131.1	129.6	126.7	172.1	164.9
87.5°	66.3	67.7	67.0	97.9	87.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)