

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: P475780

Luminaire Tested: **24GR-LD5-48-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475780  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-48-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: 4875.6 lumens  
Efficiency: N/A  
Efficacy: 147.7 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

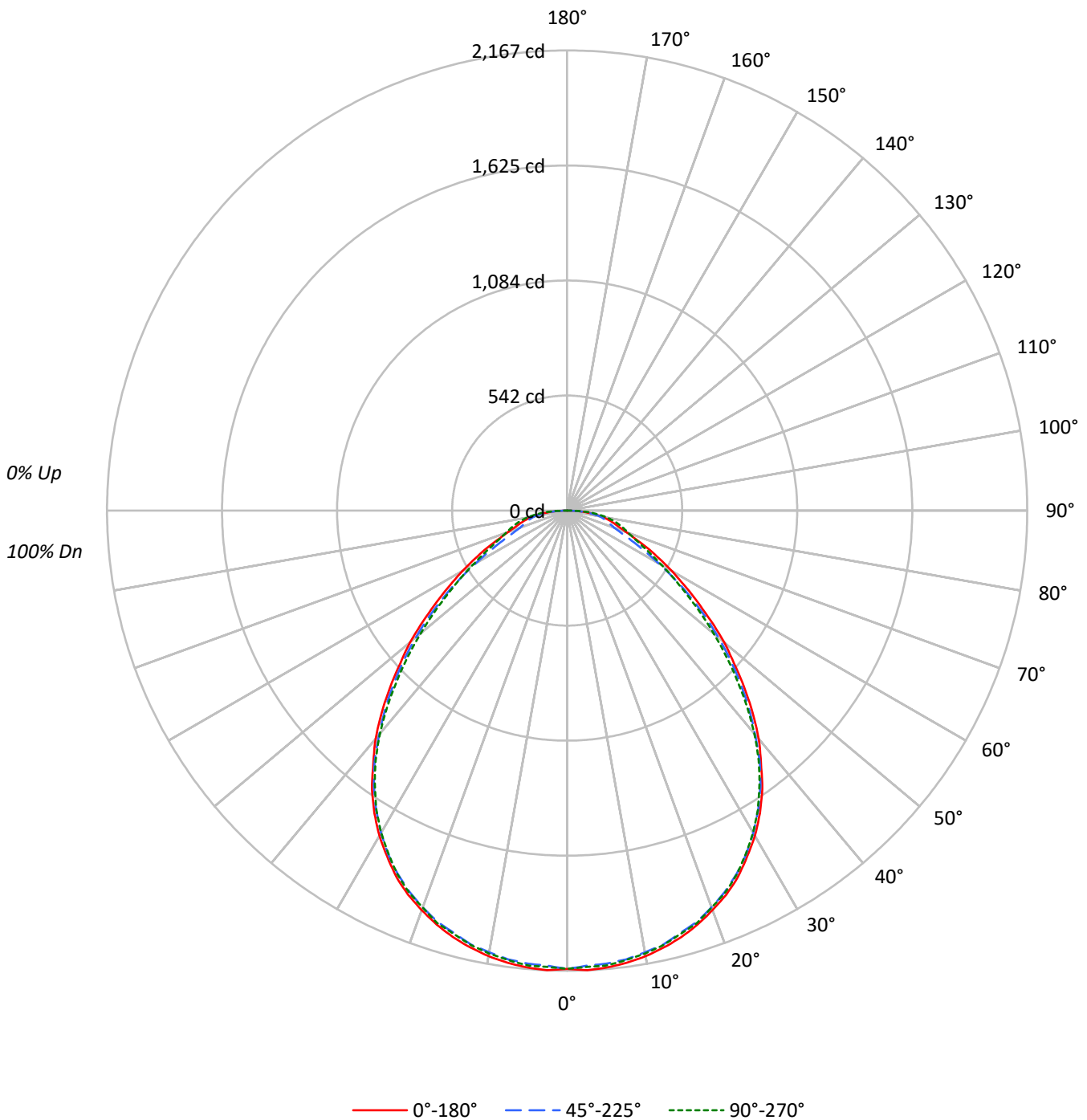
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2904	2904	2904
5°	2917	2892	2904
10°	2911	2886	2894
15°	2896	2868	2875
20°	2867	2847	2848
25°	2826	2803	2807
30°	2747	2722	2721
35°	2632	2606	2593
40°	2466	2418	2408
45°	2245	2200	2158
50°	2021	1950	1886
55°	1754	1659	1609
60°	1532	1337	1384
65°	1325	1063	1230
70°	1169	932	1201
75°	1173	1013	1314
80°	1285	1203	1488
85°	1355	1311	1706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.9	4.2
10°-20°	582.8	12.0
20°-30°	868.9	17.8
30°-40°	987.7	20.3
40°-50°	890.1	18.3
50°-60°	641.2	13.2
60°-70°	372.9	7.6
70°-80°	228.2	4.7
80°-90°	99.9	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°	1655.6	34.0
0°-40°	2643.3	54.2
0°-60°	4174.6	85.6
0°-90°	4875.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2160	2145	2141	2145	2150	205
15°	2079	2068	2059	2062	2064	586
25°	1903	1892	1888	1885	1891	874
35°	1602	1591	1586	1577	1579	997
45°	1180	1166	1156	1138	1134	910
55°	748	730	707	700	686	674
65°	416	374	334	360	386	416
75°	226	204	195	222	253	240
85°	88	87	85	115	110	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2158.0	2158.0	2158.0	2158.0	2158.0
2.5°	2166.6	2155.1	2145.4	2145.9	2150.7
5°	2159.9	2144.9	2141.1	2145.4	2150.2
7.5°	2147.8	2133.8	2131.4	2129.0	2134.8
10°	2130.5	2120.8	2112.1	2114.5	2117.9
12.5°	2107.3	2099.1	2092.8	2088.0	2095.3
15°	2079.3	2067.8	2059.1	2062.5	2063.9
17.5°	2044.1	2033.0	2030.6	2028.7	2035.9
20°	2002.2	1995.4	1988.2	1990.1	1989.1
22.5°	1957.8	1947.7	1941.9	1939.0	1946.7
25°	1903.3	1891.7	1887.9	1885.0	1890.7
27.5°	1836.7	1830.5	1825.1	1821.3	1821.8
30°	1768.2	1762.0	1752.3	1749.4	1751.4
32.5°	1689.6	1682.4	1673.7	1665.0	1671.3
35°	1602.3	1591.2	1586.4	1577.2	1578.7
37.5°	1499.1	1494.3	1489.9	1477.9	1481.7
40°	1404.1	1391.0	1376.6	1369.3	1370.8
42.5°	1294.1	1280.6	1269.0	1258.9	1254.1
45°	1179.8	1166.3	1156.2	1138.3	1134.0
47.5°	1066.0	1053.4	1042.3	1028.3	1015.8
50°	965.6	942.5	931.4	916.9	901.0
52.5°	852.8	839.3	817.6	805.5	791.0
55°	747.6	729.8	707.1	699.9	685.9
57.5°	653.1	633.8	600.5	597.6	597.1
60°	569.2	543.1	496.8	500.2	514.2
62.5°	487.6	450.5	408.5	423.5	444.2
65°	416.3	374.3	333.8	359.8	386.3
67.5°	347.8	310.1	275.9	310.6	338.6
70°	297.1	265.8	236.8	274.0	305.3
72.5°	254.7	230.6	211.7	245.5	279.3
75°	225.7	204.5	194.9	221.9	252.7
77.5°	198.7	179.9	177.0	201.1	223.8
80°	165.9	152.9	155.3	179.9	192.0
82.5°	126.4	122.5	123.0	153.9	156.3
85°	87.8	86.8	84.9	115.3	110.5
87.5°	44.4	45.3	44.9	65.6	58.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)