

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: P475781

Luminaire Tested: **24GR-LD5-56-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475781  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-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: 5717.0 lumens  
Efficiency: N/A  
Efficacy: 145.1 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

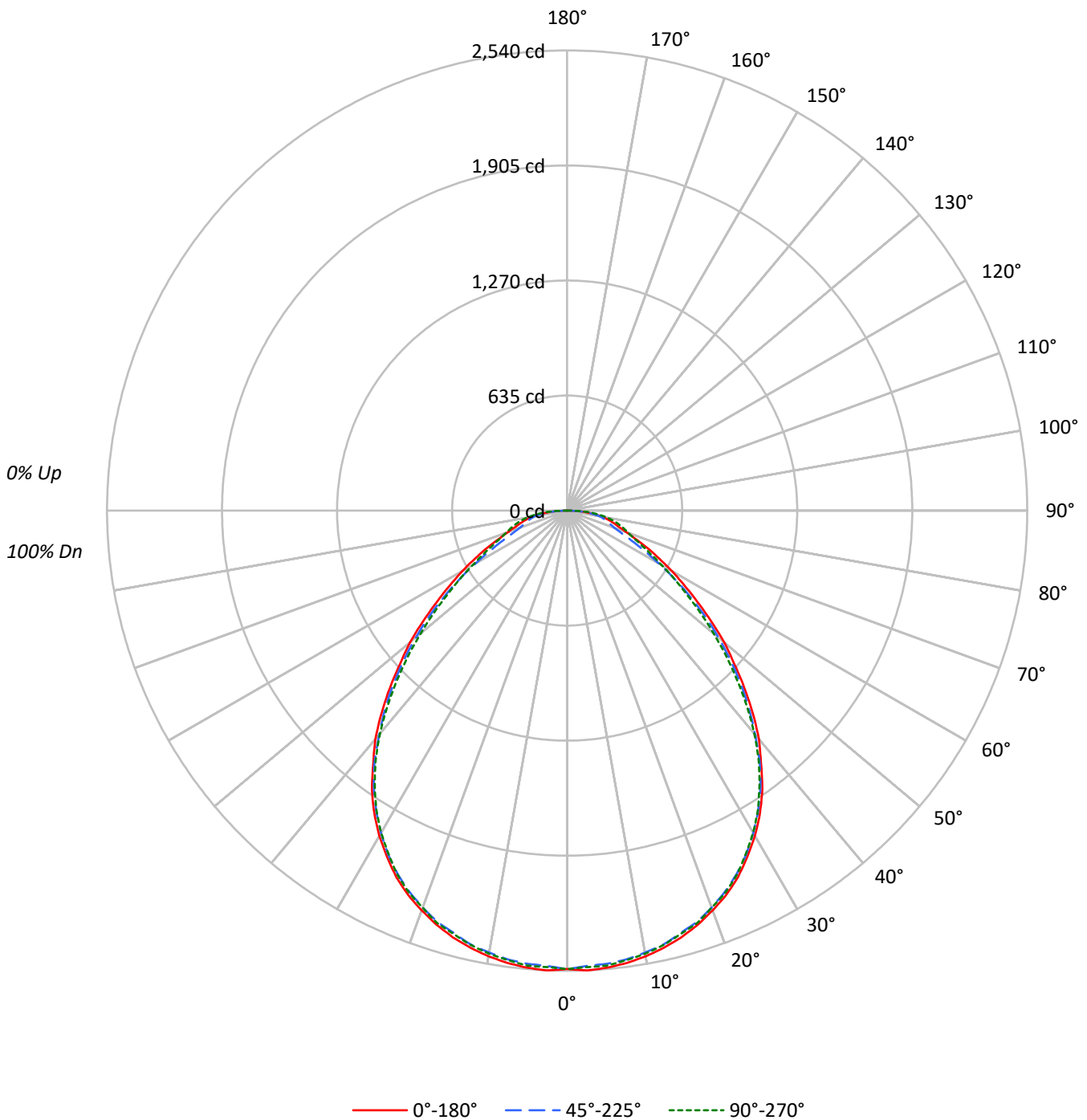
Input Watts (W): 39.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3405	3405	3405
5°	3421	3391	3405
10°	3413	3384	3393
15°	3396	3363	3371
20°	3362	3338	3340
25°	3313	3286	3291
30°	3221	3192	3191
35°	3086	3055	3041
40°	2892	2835	2823
45°	2632	2580	2530
50°	2370	2286	2211
55°	2056	1945	1886
60°	1796	1567	1622
65°	1554	1246	1442
70°	1371	1092	1408
75°	1376	1188	1541
80°	1508	1411	1744
85°	1589	1536	1999



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	4.2
10°-20°	683.3	12.0
20°-30°	1018.8	17.8
30°-40°	1158.1	20.3
40°-50°	1043.8	18.3
50°-60°	751.8	13.2
60°-70°	437.3	7.6
70°-80°	267.6	4.7
80°-90°	117.1	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°	1941.3	34.0
0°-40°	3099.4	54.2
0°-60°	4895.0	85.6
0°-90°	5717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2533	2515	2511	2516	2521	241
15°	2438	2425	2414	2418	2420	687
25°	2232	2218	2214	2210	2217	1025
35°	1879	1866	1860	1849	1851	1169
45°	1383	1368	1356	1335	1330	1067
55°	877	856	829	821	804	790
65°	488	439	391	422	453	488
75°	265	240	228	260	296	282
85°	103	102	100	135	130	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2530.4	2530.4	2530.4	2530.4	2530.4
2.5°	2540.5	2527.0	2515.7	2516.2	2521.9
5°	2532.6	2515.1	2510.6	2515.7	2521.3
7.5°	2518.5	2502.1	2499.3	2496.4	2503.2
10°	2498.1	2486.8	2476.6	2479.5	2483.4
12.5°	2471.0	2461.4	2454.0	2448.4	2456.8
15°	2438.2	2424.6	2414.4	2418.4	2420.1
17.5°	2396.9	2383.9	2381.0	2378.8	2387.3
20°	2347.7	2339.8	2331.3	2333.5	2332.4
22.5°	2295.6	2283.8	2277.0	2273.6	2282.6
25°	2231.7	2218.2	2213.6	2210.2	2217.0
27.5°	2153.7	2146.3	2140.1	2135.6	2136.2
30°	2073.4	2066.0	2054.7	2051.3	2053.6
32.5°	1981.2	1972.7	1962.5	1952.3	1959.7
35°	1878.8	1865.8	1860.2	1849.4	1851.1
37.5°	1757.8	1752.1	1747.0	1732.9	1737.4
40°	1646.4	1631.1	1614.1	1605.7	1607.3
42.5°	1517.4	1501.6	1488.0	1476.1	1470.5
45°	1383.4	1367.5	1355.7	1334.7	1329.7
47.5°	1249.9	1235.2	1222.2	1205.8	1191.1
50°	1132.3	1105.1	1092.1	1075.1	1056.5
52.5°	999.9	984.1	958.6	944.5	927.5
55°	876.6	855.7	829.1	820.6	804.2
57.5°	765.8	743.2	704.1	700.7	700.2
60°	667.4	636.8	582.5	586.5	602.9
62.5°	571.8	528.2	479.0	496.6	520.9
65°	488.1	438.9	391.4	421.9	453.0
67.5°	407.8	363.7	323.5	364.2	397.0
70°	348.4	311.6	277.7	321.2	358.0
72.5°	298.6	270.3	248.3	287.9	327.5
75°	264.7	239.8	228.5	260.2	296.4
77.5°	233.0	211.0	207.6	235.8	262.4
80°	194.6	179.3	182.1	211.0	225.1
82.5°	148.2	143.7	144.2	180.4	183.2
85°	102.9	101.8	99.5	135.2	129.5
87.5°	52.0	53.2	52.6	76.9	69.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)