

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: P219166

Luminaire Tested: **24GR-LD5-72-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-A125-UNV-L935-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6180.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

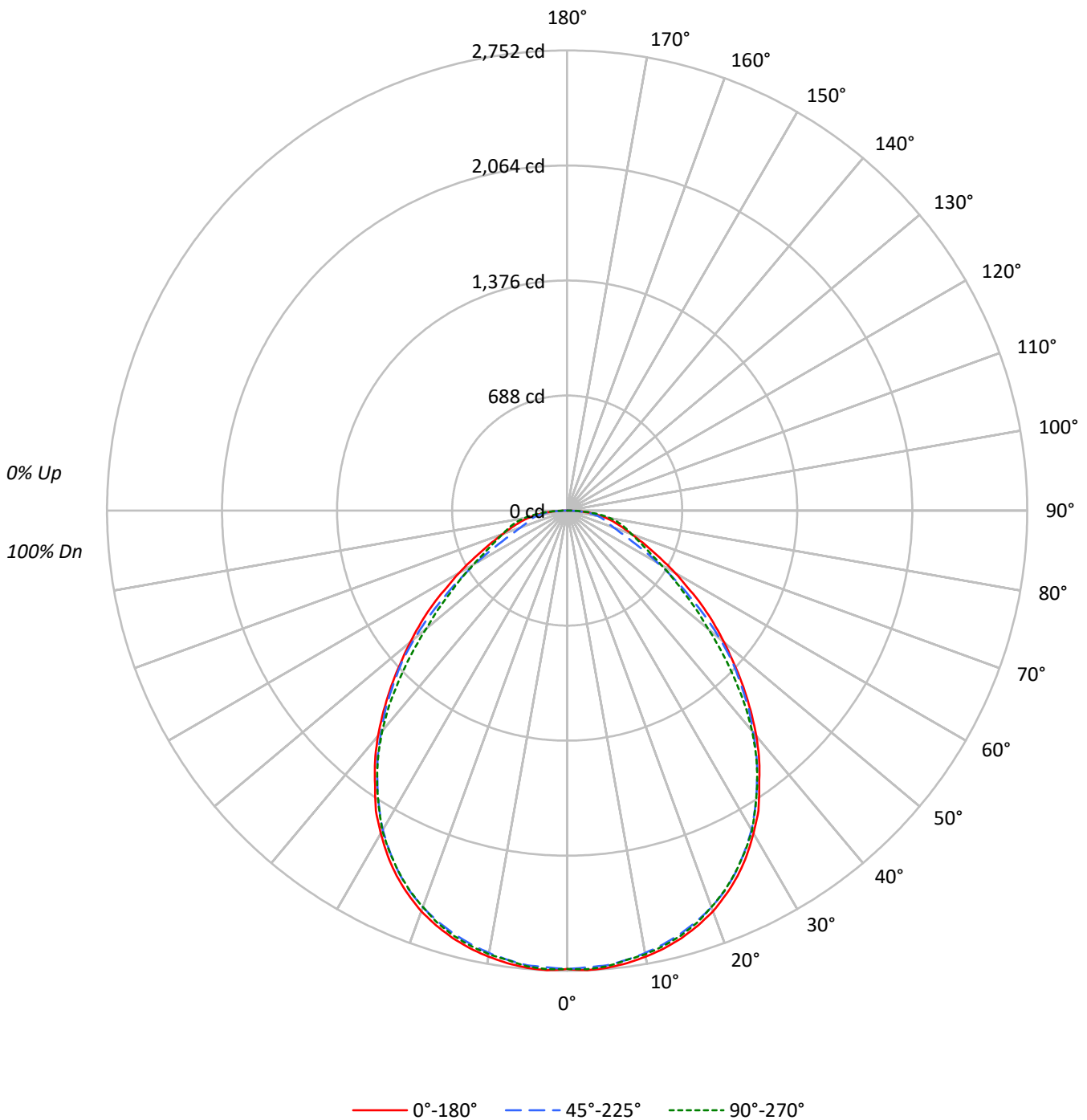
Input Watts (W): 56.061  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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

	0°	45°	90°
0°	4200	4200	4200
5°	4220	4197	4207
10°	4213	4178	4190
15°	4197	4154	4172
20°	4156	4114	4113
25°	4076	4032	4029
30°	3941	3900	3909
35°	3743	3700	3706
40°	3520	3459	3438
45°	3226	3183	3057
50°	2917	2837	2623
55°	2618	2384	2261
60°	2293	1919	1989
65°	2000	1508	1831
70°	1830	1317	1830
75°	1830	1401	2017
80°	1987	1651	2299
85°	2181	1863	2466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.7	4.2
10°-20°	741.0	12.0
20°-30°	1098.8	17.8
30°-40°	1239.5	20.1
40°-50°	1122.7	18.2
50°-60°	809.9	13.1
60°-70°	483.6	7.8
70°-80°	298.9	4.8
80°-90°	125.9	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°	2099.5	34.0
0°-40°	3339.0	54.0
0°-60°	5271.6	85.3
0°-90°	6180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2745	2741	2730	2727	2736	261
15°	2647	2630	2620	2621	2631	746
25°	2412	2398	2386	2377	2384	1108
35°	2002	1999	1979	1980	1982	1253
45°	1489	1480	1469	1433	1411	1148
55°	980	950	893	849	847	875
65°	552	486	416	473	505	555
75°	309	268	237	295	341	330
85°	124	109	106	138	140	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2742.0	2742.0	2742.0	2742.0	2742.0
2.5°	2751.5	2743.9	2734.4	2740.1	2744.9
5°	2744.9	2741.1	2729.6	2726.7	2736.2
7.5°	2730.5	2721.0	2710.5	2715.2	2711.4
10°	2708.6	2700.0	2686.6	2687.6	2694.2
12.5°	2681.8	2671.4	2657.0	2660.8	2666.6
15°	2646.6	2630.3	2619.8	2620.7	2631.3
17.5°	2601.7	2589.3	2575.8	2578.7	2583.5
20°	2550.1	2543.5	2524.3	2518.6	2523.4
22.5°	2485.1	2472.7	2462.3	2459.4	2460.3
25°	2411.7	2398.3	2385.9	2377.3	2384.0
27.5°	2325.8	2314.3	2298.1	2295.2	2301.0
30°	2228.4	2219.8	2205.4	2201.6	2210.3
32.5°	2129.1	2114.7	2094.7	2094.7	2096.6
35°	2002.1	1999.2	1979.1	1980.2	1982.0
37.5°	1887.5	1874.2	1862.7	1851.2	1857.0
40°	1760.5	1745.2	1730.0	1722.4	1719.5
42.5°	1624.0	1612.5	1605.9	1578.2	1571.5
45°	1489.4	1479.8	1469.3	1433.1	1411.1
47.5°	1351.9	1350.0	1341.4	1277.5	1255.4
50°	1224.0	1221.1	1190.6	1122.8	1100.8
52.5°	1102.7	1083.7	1043.5	976.7	972.9
55°	980.5	950.0	892.7	848.7	846.9
57.5°	851.6	815.3	757.1	733.2	745.6
60°	748.5	693.2	626.3	629.2	649.2
62.5°	641.6	579.5	513.7	542.3	566.2
65°	551.8	485.9	416.2	472.6	505.1
67.5°	473.5	412.4	345.6	421.0	452.5
70°	408.6	359.0	294.1	373.3	408.6
72.5°	357.1	311.3	260.6	335.1	376.1
75°	309.3	268.3	236.8	295.0	340.8
77.5°	268.3	228.1	213.9	260.6	305.5
80°	225.3	189.0	187.2	227.2	260.6
82.5°	175.7	150.9	150.9	190.0	210.0
85°	124.1	108.8	106.0	138.5	140.3
87.5°	64.0	61.1	55.3	72.6	72.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)