

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: P234137

Luminaire Tested: **22GR-LD5-90-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-90-A125-UNV-L930-CD1-U  
Description: METALUX 2X2 GRLED TROFFER  
WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7056.7 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

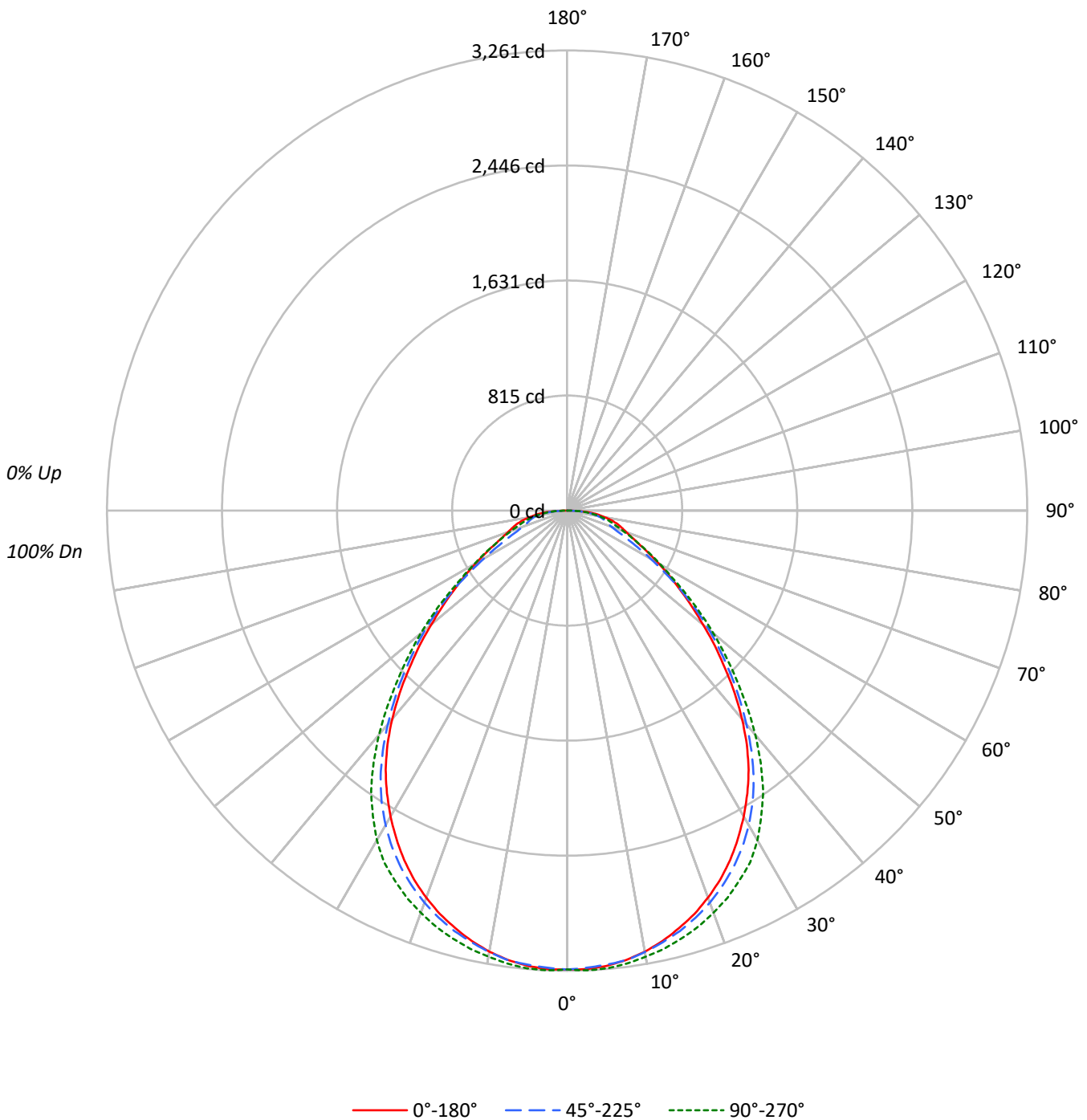
Input Watts (W): 85.94  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

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

	0°	45°	90°
0°	10417	10417	10417
5°	10409	10383	10467
10°	10321	10332	10439
15°	10157	10228	10403
20°	9947	10076	10334
25°	9657	9854	10215
30°	9254	9515	9972
35°	8767	9012	9468
40°	8061	8261	8674
45°	7161	7422	7690
50°	6254	6542	6738
55°	5438	5512	5714
60°	4784	4384	4879
65°	4251	3503	4276
70°	4175	3111	3944
75°	4561	3420	4031
80°	5007	4067	4308
85°	5986	4714	4836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.4	4.4
10°-20°	871.8	12.4
20°-30°	1287.0	18.2
30°-40°	1440.2	20.4
40°-50°	1264.7	17.9
50°-60°	894.9	12.7
60°-70°	520.9	7.4
70°-80°	324.6	4.6
80°-90°	145.3	2.1
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°	2466.3	34.9
0°-40°	3906.4	55.4
0°-60°	6066.0	86.0
0°-90°	7056.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7056.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3253	3253	3253	3253	3253	
5°	3238	3230	3230	3246	3256	307
15°	3064	3070	3085	3118	3138	863
25°	2733	2744	2789	2855	2891	1255
35°	2242	2252	2305	2374	2422	1395
45°	1581	1599	1639	1678	1698	1223
55°	974	994	987	1005	1023	880
65°	561	517	462	504	564	569
75°	369	318	276	283	326	385
85°	163	170	128	125	132	165
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3252.8	3252.8	3252.8	3252.8	3252.8
2.5°	3252.8	3246.2	3242.9	3254.4	3261.1
5°	3238.0	3229.7	3229.7	3246.2	3256.1
7.5°	3211.7	3203.4	3213.3	3228.1	3238.0
10°	3173.8	3170.5	3177.1	3196.9	3210.1
12.5°	3124.4	3126.1	3132.7	3164.0	3180.4
15°	3063.6	3070.2	3085.0	3117.9	3137.6
17.5°	2997.8	3002.7	3025.7	3063.6	3091.6
20°	2918.8	2928.6	2956.7	3004.3	3032.4
22.5°	2831.6	2843.1	2877.6	2935.3	2969.8
25°	2732.9	2744.4	2788.8	2854.7	2890.8
27.5°	2621.0	2639.1	2688.5	2760.9	2810.2
30°	2502.6	2517.3	2573.2	2655.6	2696.7
32.5°	2375.9	2393.9	2446.6	2525.6	2561.8
35°	2242.5	2252.5	2305.1	2374.2	2421.9
37.5°	2091.2	2096.2	2145.5	2209.7	2252.5
40°	1928.3	1931.6	1976.0	2036.9	2074.8
42.5°	1758.8	1760.5	1808.2	1854.3	1887.1
45°	1581.1	1599.2	1638.8	1678.2	1698.0
47.5°	1421.6	1434.8	1470.9	1505.4	1523.6
50°	1255.3	1288.3	1313.0	1331.0	1352.4
52.5°	1112.2	1140.2	1146.8	1168.2	1186.3
55°	974.0	993.8	987.2	1005.3	1023.4
57.5°	857.2	847.3	826.0	857.2	880.3
60°	746.9	720.6	684.5	727.3	761.8
62.5°	648.3	605.5	561.0	603.8	661.4
65°	561.0	516.6	462.3	503.5	564.3
67.5°	495.3	449.2	385.0	426.2	487.0
70°	445.9	398.2	332.3	366.9	421.2
72.5°	406.4	355.4	297.8	320.9	366.9
75°	368.6	317.6	276.4	283.0	325.8
77.5°	324.1	286.3	253.4	250.1	283.0
80°	271.5	259.9	220.5	215.5	233.6
82.5°	223.8	218.9	181.0	176.1	182.6
85°	162.9	169.5	128.3	125.0	131.6
87.5°	85.5	93.8	67.5	70.8	72.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)