

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: P476117

Luminaire Tested: **22GR-LD5-60-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476117  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-60-A125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6114.7 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

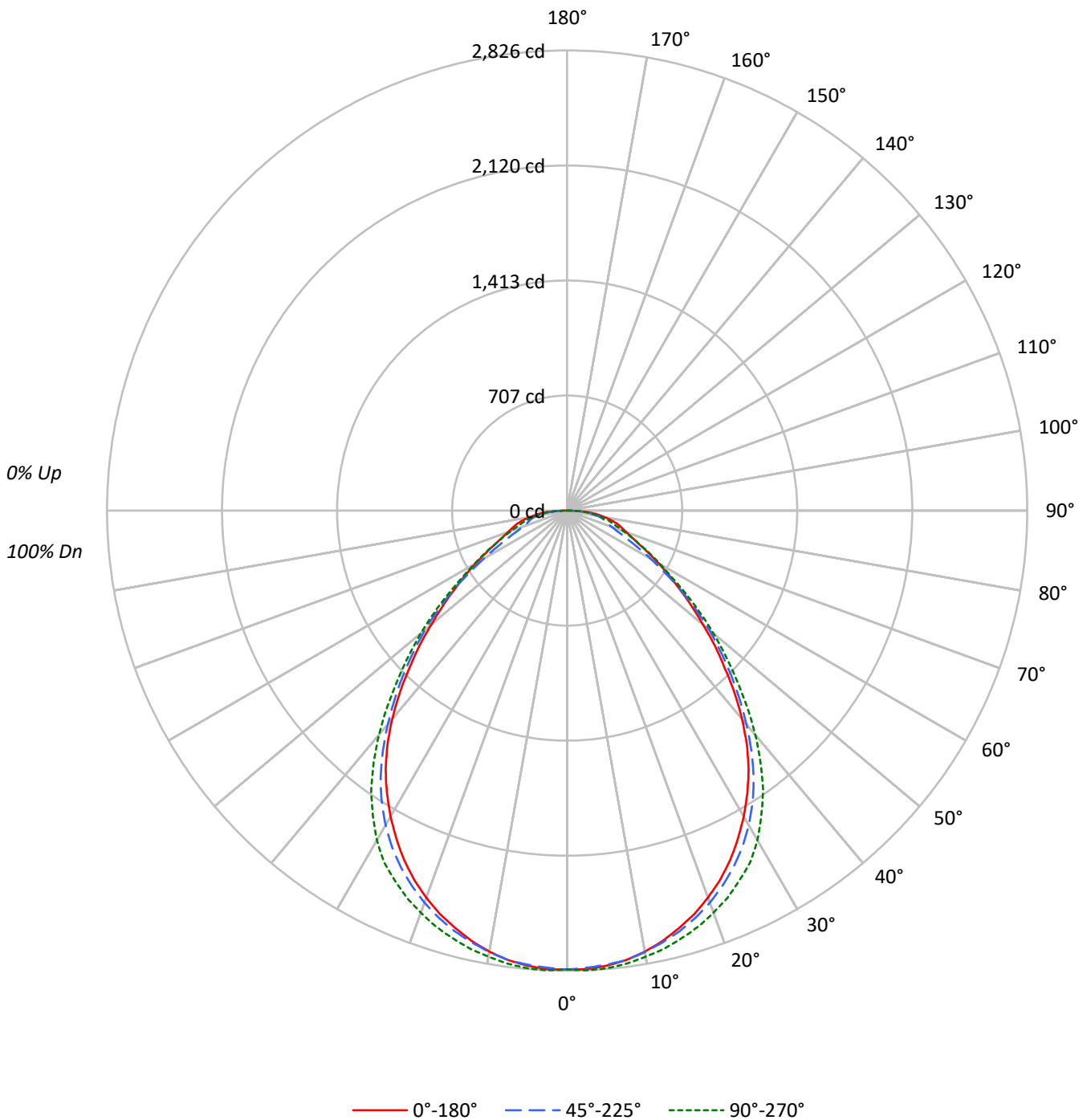
Input Watts (W): 44.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	7585	7585	7585
5°	7579	7560	7622
10°	7515	7523	7601
15°	7395	7448	7574
20°	7243	7337	7525
25°	7032	7175	7438
30°	6739	6929	7261
35°	6383	6562	6894
40°	5870	6015	6315
45°	5214	5404	5599
50°	4554	4763	4906
55°	3959	4014	4161
60°	3484	3192	3553
65°	3096	2551	3113
70°	3039	2264	2873
75°	3322	2490	2934
80°	3648	2958	3140
85°	4357	3436	3517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.4	4.4
10°-20°	755.4	12.4
20°-30°	1115.2	18.2
30°-40°	1247.9	20.4
40°-50°	1095.9	17.9
50°-60°	775.4	12.7
60°-70°	451.4	7.4
70°-80°	281.3	4.6
80°-90°	125.9	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°	2137.0	34.9
0°-40°	3385.0	55.4
0°-60°	5256.2	86.0
0°-90°	6114.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6114.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2819	2819	2819	2819	2819	
5°	2806	2799	2799	2813	2822	266
15°	2654	2660	2673	2702	2719	748
25°	2368	2378	2416	2473	2505	1088
35°	1943	1952	1997	2057	2098	1209
45°	1370	1386	1420	1454	1471	1060
55°	844	861	856	871	887	763
65°	486	448	401	436	489	493
75°	320	275	240	245	282	334
85°	141	147	111	108	114	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2818.6	2818.6	2818.6	2818.6	2818.6
2.5°	2818.6	2813.0	2809.9	2820.1	2825.8
5°	2805.8	2798.6	2798.6	2813.0	2821.6
7.5°	2783.1	2776.0	2784.3	2797.1	2805.8
10°	2750.3	2747.3	2753.0	2770.3	2781.6
12.5°	2707.3	2708.8	2714.5	2741.7	2756.0
15°	2654.5	2660.2	2673.4	2701.7	2718.6
17.5°	2597.6	2602.1	2621.7	2654.5	2679.0
20°	2529.3	2537.6	2562.1	2603.2	2627.7
22.5°	2453.5	2463.6	2493.4	2543.6	2573.4
25°	2368.2	2378.0	2416.5	2473.4	2505.1
27.5°	2271.3	2286.7	2329.7	2392.3	2435.0
30°	2168.7	2181.5	2229.8	2301.1	2336.9
32.5°	2058.9	2074.3	2120.0	2188.3	2220.0
35°	1943.1	1951.8	1997.4	2057.4	2098.5
37.5°	1812.2	1816.3	1859.0	1914.8	1951.8
40°	1671.1	1673.7	1712.2	1765.0	1797.8
42.5°	1524.0	1525.5	1567.0	1606.6	1635.3
45°	1370.1	1385.9	1419.9	1454.2	1471.2
47.5°	1231.6	1243.3	1274.6	1304.4	1320.3
50°	1087.9	1116.2	1137.7	1153.5	1172.0
52.5°	963.8	987.9	993.6	1012.1	1027.9
55°	843.8	861.2	855.5	871.0	886.9
57.5°	742.8	734.1	715.6	742.8	762.7
60°	647.3	624.3	593.0	630.3	660.1
62.5°	561.7	524.7	486.2	523.2	573.0
65°	486.2	447.8	400.6	436.4	488.9
67.5°	429.3	389.3	333.5	369.3	422.1
70°	386.3	345.2	287.8	318.0	365.2
72.5°	352.3	307.8	258.0	278.0	318.0
75°	319.5	275.0	239.5	245.2	282.2
77.5°	281.0	248.2	219.5	216.5	245.2
80°	235.4	225.2	190.9	186.7	202.6
82.5°	193.9	189.7	156.9	152.4	158.4
85°	141.1	146.7	111.3	108.3	113.9
87.5°	74.3	81.1	58.5	61.5	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)