

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: P475938

Luminaire Tested: **22GR-LD5-70-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475938  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-70-F125-UNV-L830-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6810.9 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

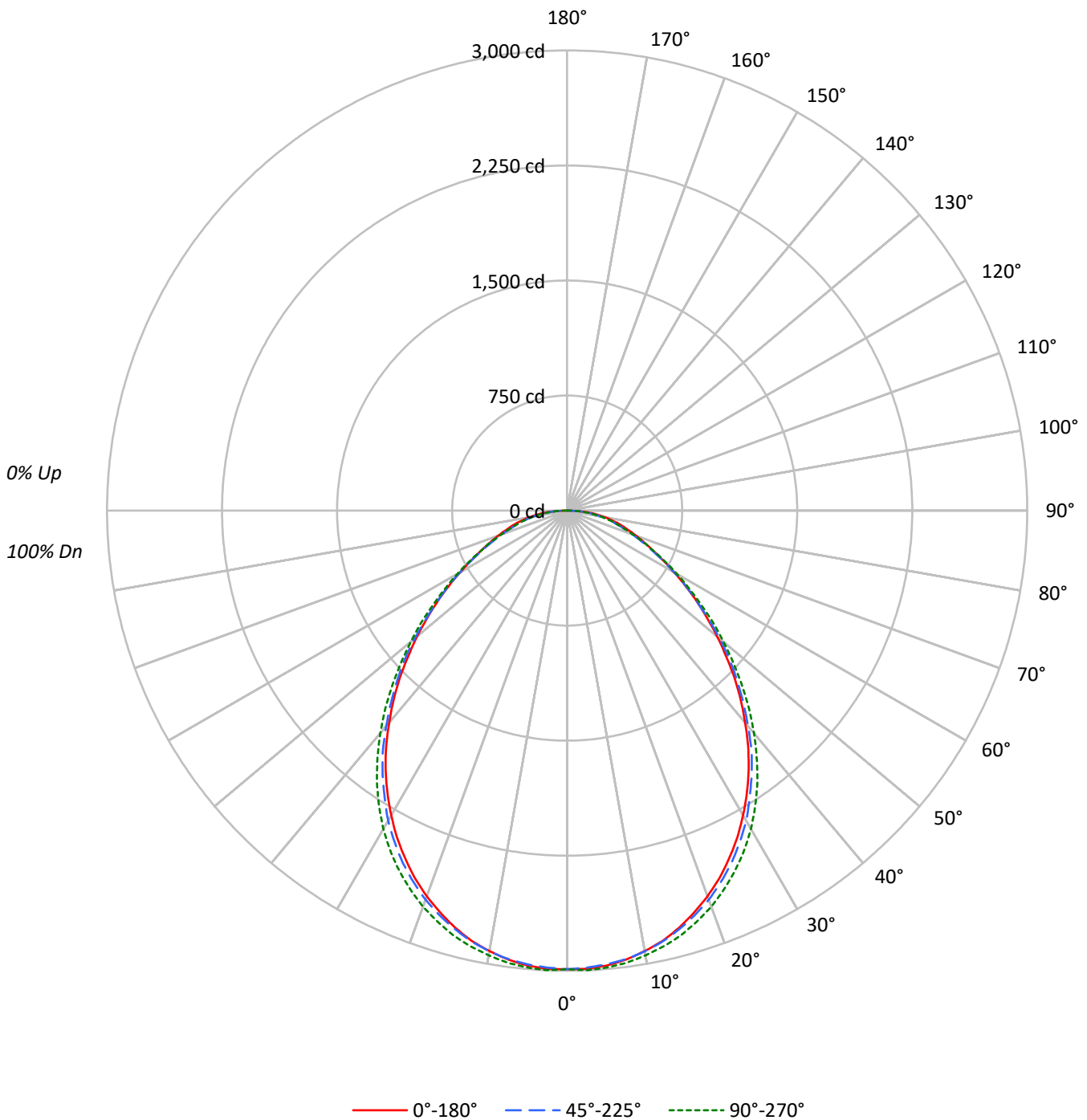
Input Watts (W): 52.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475938

CATALOG NUMBER: 22GR-LD5-70-F125-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475938

CATALOG NUMBER: 22GR-LD5-70-F125-UNV-L830-CD1-U

**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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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

	0°	45°	90°
0°	8046	8046	8046
5°	8042	8021	8076
10°	7968	7972	8045
15°	7846	7872	7987
20°	7662	7730	7870
25°	7424	7527	7691
30°	7130	7253	7444
35°	6780	6889	7102
40°	6341	6445	6656
45°	5870	5960	6134
50°	5346	5431	5571
55°	4828	4841	4982
60°	4329	4345	4449
65°	3945	3863	3954
70°	3754	3543	3605
75°	3777	3417	3434
80°	3921	3454	3428
85°	4298	3653	3461



TEST NUMBER: P475938

CATALOG NUMBER: 22GR-LD5-70-F125-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.5	4.1
10°-20°	798.0	11.7
20°-30°	1168.0	17.1
30°-40°	1313.2	19.3
40°-50°	1211.0	17.8
50°-60°	933.4	13.7
60°-70°	615.9	9.0
70°-80°	358.4	5.3
80°-90°	130.5	1.9
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°	2248.4	33.0
0°-40°	3561.6	52.3
0°-60°	5706.1	83.8
0°-90°	6810.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6810.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2990	2990	2990	2990	2990	
5°	2977	2971	2969	2984	2990	282
15°	2816	2816	2826	2851	2867	793
25°	2500	2513	2535	2570	2590	1150
35°	2064	2073	2097	2140	2162	1287
45°	1542	1544	1566	1598	1612	1188
55°	1029	1027	1032	1049	1062	923
65°	620	616	607	612	621	621
75°	363	348	329	322	330	383
85°	139	138	118	109	112	147
90°	0	0	0	0	0	



TEST NUMBER: P475938

CATALOG NUMBER: 22GR-LD5-70-F125-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2989.9	2989.9	2989.9	2989.9	2989.9
2.5°	2989.9	2983.6	2981.9	2993.2	2999.5
5°	2977.3	2971.1	2969.4	2983.6	2989.9
7.5°	2952.3	2947.2	2948.9	2964.8	2972.7
10°	2915.9	2914.2	2917.6	2934.7	2944.3
12.5°	2873.2	2871.6	2877.8	2896.6	2909.6
15°	2816.4	2816.4	2825.6	2851.1	2867.0
17.5°	2748.2	2752.8	2767.0	2792.5	2809.7
20°	2675.5	2680.5	2699.3	2727.7	2748.2
22.5°	2594.8	2601.5	2620.3	2655.0	2672.5
25°	2500.3	2512.8	2535.0	2569.7	2590.2
27.5°	2402.0	2416.2	2436.7	2479.8	2498.6
30°	2294.6	2304.2	2334.3	2373.6	2395.8
32.5°	2180.8	2190.5	2215.6	2263.2	2282.0
35°	2063.8	2073.4	2097.2	2139.9	2162.0
37.5°	1937.5	1945.5	1973.9	2006.9	2030.7
40°	1805.0	1815.8	1834.7	1874.4	1894.9
42.5°	1675.4	1680.0	1700.4	1740.2	1755.6
45°	1542.4	1544.1	1566.2	1597.6	1611.8
47.5°	1404.8	1408.2	1434.9	1453.8	1468.0
50°	1276.9	1278.6	1297.4	1314.9	1330.8
52.5°	1149.0	1149.0	1158.6	1177.4	1197.9
55°	1029.0	1027.3	1031.9	1049.4	1062.0
57.5°	915.2	913.6	919.8	930.7	940.3
60°	804.4	801.1	807.4	814.1	826.6
62.5°	706.6	709.5	701.6	711.2	720.8
65°	619.6	616.3	606.7	611.7	620.9
67.5°	545.2	540.6	524.7	527.7	538.9
70°	477.1	467.9	450.3	450.3	458.2
72.5°	415.6	406.0	383.8	385.5	388.8
75°	363.3	347.9	328.6	322.4	330.3
77.5°	306.5	293.9	276.4	271.8	275.1
80°	253.0	243.3	222.9	216.6	221.2
82.5°	200.7	192.7	168.9	164.3	166.0
85°	139.2	137.6	118.3	109.1	112.1
87.5°	74.4	75.7	61.5	55.2	58.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)