

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: P475973

Luminaire Tested: **22GR-LD5-60-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475973  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-60-F125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6090.3 lumens  
Efficiency: N/A  
Efficacy: 137.2 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

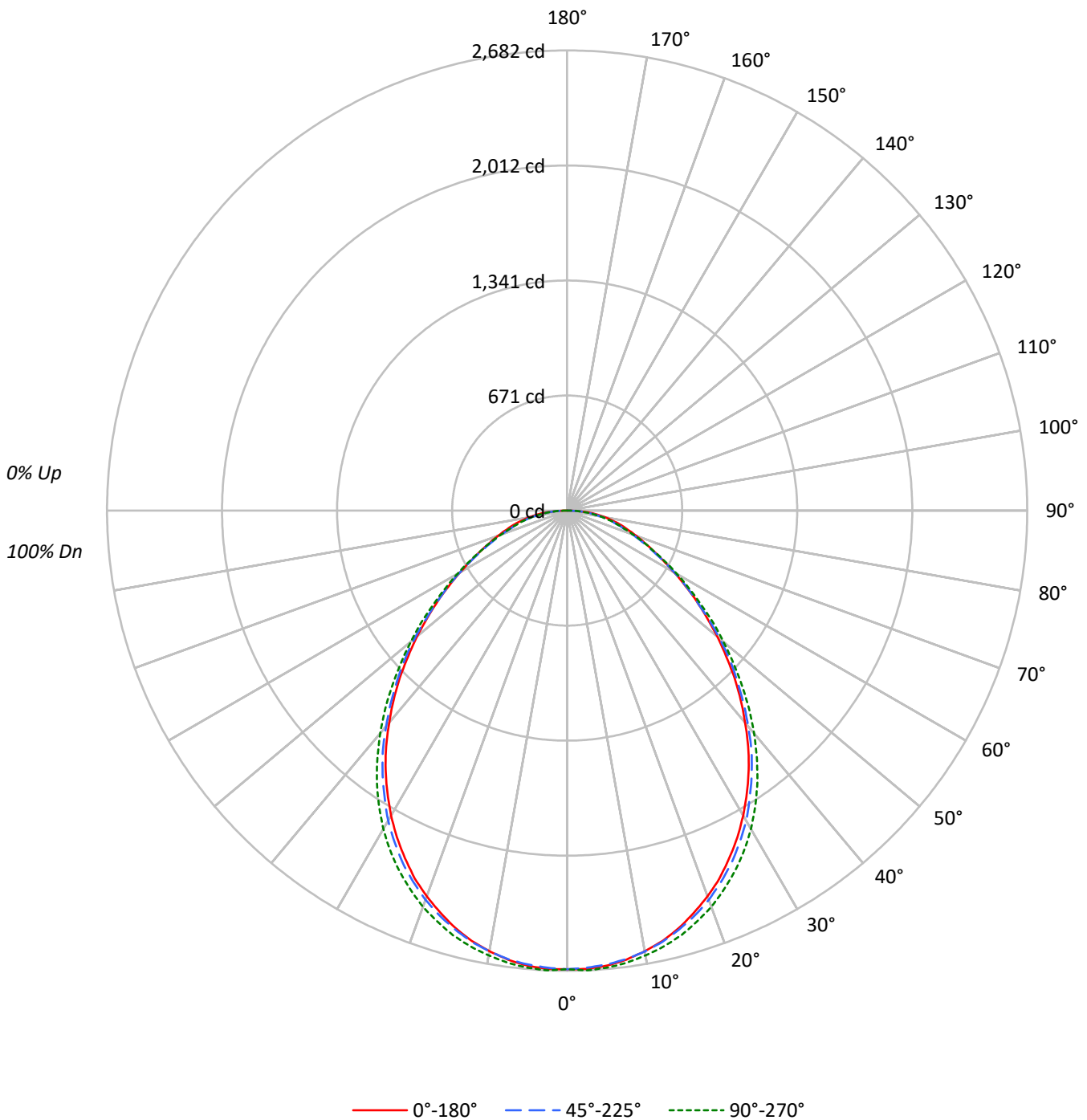
Input Watts (W): 44.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475973

CATALOG NUMBER: 22GR-LD5-60-F125-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475973

CATALOG NUMBER: 22GR-LD5-60-F125-UNV-L850-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°	7195	7195	7195
5°	7192	7173	7222
10°	7125	7129	7194
15°	7016	7039	7142
20°	6851	6912	7037
25°	6638	6731	6877
30°	6376	6486	6657
35°	6062	6161	6351
40°	5670	5763	5952
45°	5249	5330	5485
50°	4780	4857	4982
55°	4317	4329	4455
60°	3871	3886	3978
65°	3528	3454	3535
70°	3356	3168	3224
75°	3378	3056	3071
80°	3505	3088	3065
85°	3844	3267	3094



TEST NUMBER: P475973

CATALOG NUMBER: 22GR-LD5-60-F125-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.6	4.1
10°-20°	713.6	11.7
20°-30°	1044.4	17.1
30°-40°	1174.2	19.3
40°-50°	1082.9	17.8
50°-60°	834.6	13.7
60°-70°	550.7	9.0
70°-80°	320.5	5.3
80°-90°	116.7	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°	2010.6	33.0
0°-40°	3184.8	52.3
0°-60°	5102.4	83.8
0°-90°	6090.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6090.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2674	2674	2674	2674	2674	
5°	2662	2657	2655	2668	2674	252
15°	2518	2518	2527	2550	2564	709
25°	2236	2247	2267	2298	2316	1028
35°	1845	1854	1875	1914	1933	1151
45°	1379	1381	1400	1429	1441	1062
55°	920	919	923	938	950	825
65°	554	551	542	547	555	556
75°	325	311	294	288	295	342
85°	124	123	106	98	100	132
90°	0	0	0	0	0	



TEST NUMBER: P475973

CATALOG NUMBER: 22GR-LD5-60-F125-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2673.6	2668.0	2666.5	2676.6	2682.2
5°	2662.4	2656.8	2655.3	2668.0	2673.6
7.5°	2639.9	2635.4	2636.9	2651.1	2658.2
10°	2607.4	2605.9	2608.9	2624.2	2632.8
12.5°	2569.3	2567.8	2573.4	2590.2	2601.8
15°	2518.4	2518.4	2526.6	2549.5	2563.7
17.5°	2457.5	2461.6	2474.3	2497.1	2512.4
20°	2392.4	2396.9	2413.7	2439.2	2457.5
22.5°	2320.3	2326.2	2343.1	2374.1	2389.8
25°	2235.8	2247.0	2266.8	2297.8	2316.2
27.5°	2147.9	2160.6	2178.9	2217.5	2234.3
30°	2051.8	2060.4	2087.3	2122.5	2142.3
32.5°	1950.1	1958.7	1981.2	2023.8	2040.6
35°	1845.4	1854.0	1875.4	1913.5	1933.3
37.5°	1732.5	1739.6	1765.1	1794.6	1815.9
40°	1614.0	1623.7	1640.6	1676.1	1694.4
42.5°	1498.1	1502.2	1520.5	1556.1	1569.9
45°	1379.2	1380.7	1400.5	1428.6	1441.3
47.5°	1256.2	1259.2	1283.1	1300.0	1312.7
50°	1141.8	1143.3	1160.1	1175.8	1190.0
52.5°	1027.4	1027.4	1036.0	1052.8	1071.2
55°	920.1	918.6	922.7	938.4	949.6
57.5°	818.4	816.9	822.5	832.2	840.8
60°	719.3	716.3	722.0	727.9	739.2
62.5°	631.8	634.5	627.4	636.0	644.6
65°	554.1	551.1	542.5	547.0	555.2
67.5°	487.5	483.4	469.2	471.8	481.9
70°	426.6	418.4	402.7	402.7	409.8
72.5°	371.6	363.0	343.2	344.7	347.7
75°	324.9	311.1	293.9	288.3	295.4
77.5°	274.1	262.8	247.1	243.0	246.0
80°	226.2	217.6	199.3	193.7	197.8
82.5°	179.5	172.4	151.0	146.9	148.4
85°	124.5	123.0	105.8	97.6	100.2
87.5°	66.5	67.7	55.0	49.4	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)