

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: P475951

Luminaire Tested: **22GR-LD5-85-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475951  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-85-F125-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8545.9 lumens  
Efficiency: N/A  
Efficacy: 131.9 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

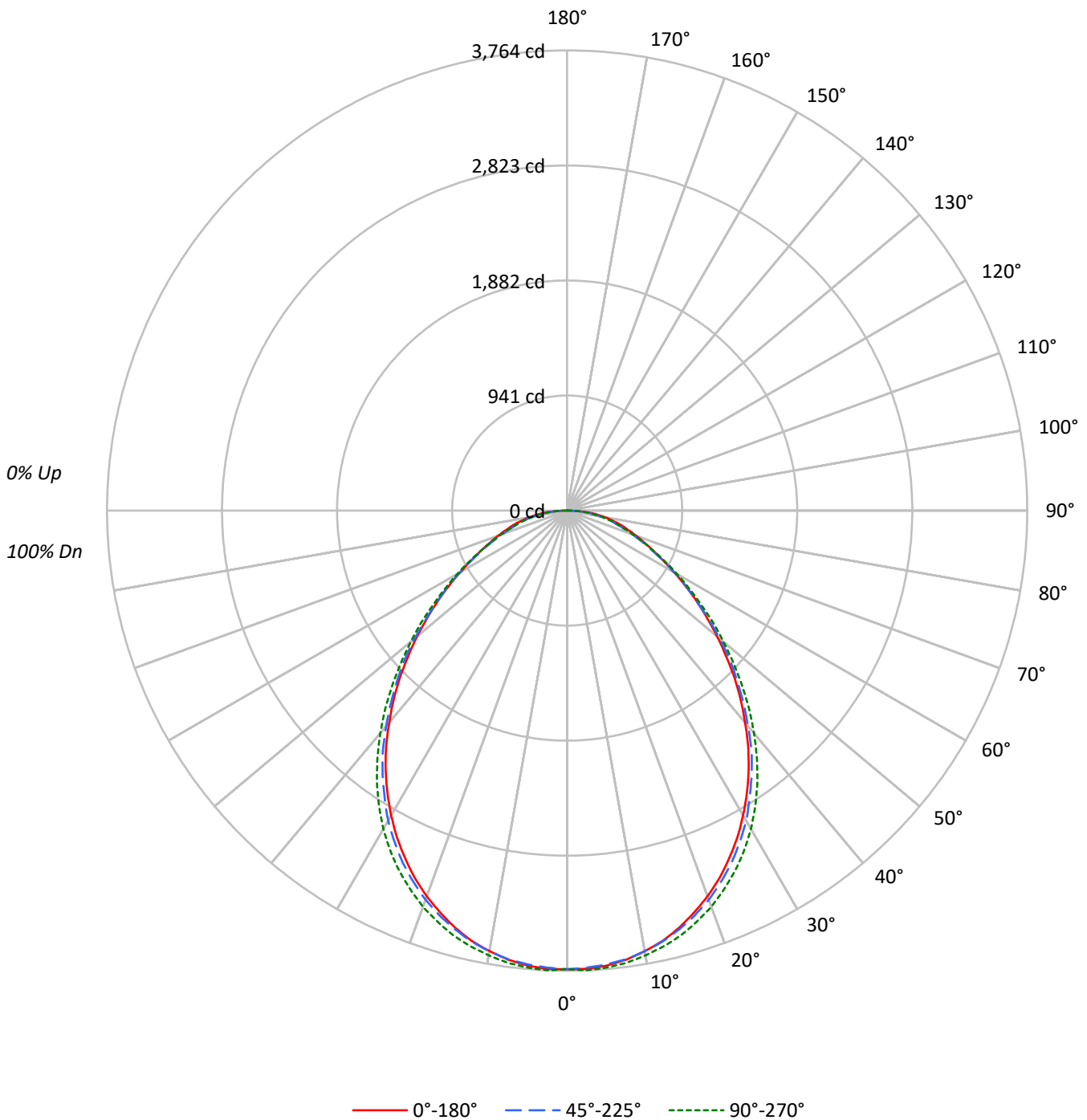
Input Watts (W): 64.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475951

CATALOG NUMBER: 22GR-LD5-85-F125-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475951

CATALOG NUMBER: 22GR-LD5-85-F125-UNV-L835-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°	10095	10095	10095
5°	10091	10064	10134
10°	9997	10003	10095
15°	9845	9877	10022
20°	9613	9699	9875
25°	9315	9444	9650
30°	8946	9101	9341
35°	8507	8645	8912
40°	7956	8087	8352
45°	7365	7479	7696
50°	6707	6815	6991
55°	6057	6075	6252
60°	5433	5452	5582
65°	4951	4847	4961
70°	4710	4445	4524
75°	4740	4287	4309
80°	4919	4333	4300
85°	5394	4585	4341



TEST NUMBER: P475951

CATALOG NUMBER: 22GR-LD5-85-F125-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.4	4.1
10°-20°	1001.3	11.7
20°-30°	1465.5	17.1
30°-40°	1647.7	19.3
40°-50°	1519.5	17.8
50°-60°	1171.2	13.7
60°-70°	772.8	9.0
70°-80°	449.7	5.3
80°-90°	163.8	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°	2821.2	33.0
0°-40°	4468.9	52.3
0°-60°	7159.6	83.8
0°-90°	8545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8545.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3752	3752	3752	3752	3752	
5°	3736	3728	3726	3744	3752	354
15°	3534	3534	3545	3577	3597	994
25°	3137	3153	3181	3224	3250	1443
35°	2590	2602	2632	2685	2713	1615
45°	1935	1937	1965	2005	2022	1490
55°	1291	1289	1295	1317	1332	1158
65°	778	773	761	768	779	780
75°	456	436	412	404	414	480
85°	175	173	148	137	141	185
90°	0	0	0	0	0	



TEST NUMBER: P475951

CATALOG NUMBER: 22GR-LD5-85-F125-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3751.5	3751.5	3751.5	3751.5	3751.5
2.5°	3751.5	3743.7	3741.6	3755.7	3763.6
5°	3735.8	3727.9	3725.8	3743.7	3751.5
7.5°	3704.3	3698.0	3700.1	3720.1	3730.0
10°	3658.7	3656.6	3660.8	3682.3	3694.3
12.5°	3605.2	3603.1	3610.9	3634.5	3650.8
15°	3533.8	3533.8	3545.4	3577.4	3597.3
17.5°	3448.3	3454.1	3471.9	3503.9	3525.4
20°	3357.0	3363.3	3386.9	3422.6	3448.3
22.5°	3255.8	3264.2	3287.8	3331.3	3353.3
25°	3137.2	3152.9	3180.7	3224.3	3250.0
27.5°	3013.9	3031.8	3057.5	3111.5	3135.1
30°	2879.1	2891.2	2928.9	2978.2	3006.1
32.5°	2736.4	2748.5	2779.9	2839.7	2863.4
35°	2589.5	2601.6	2631.5	2685.0	2712.8
37.5°	2431.1	2441.0	2476.7	2518.2	2548.1
40°	2264.8	2278.4	2302.0	2351.9	2377.6
42.5°	2102.1	2107.9	2133.6	2183.5	2202.9
45°	1935.3	1937.4	1965.2	2004.6	2022.4
47.5°	1762.7	1766.9	1800.5	1824.1	1841.9
50°	1602.2	1604.3	1627.9	1649.9	1669.9
52.5°	1441.6	1441.6	1453.7	1477.3	1503.0
55°	1291.1	1289.0	1294.8	1316.8	1332.5
57.5°	1148.4	1146.3	1154.2	1167.8	1179.9
60°	1009.4	1005.2	1013.0	1021.4	1037.2
62.5°	886.6	890.3	880.3	892.4	904.4
65°	777.5	773.3	761.2	767.5	779.1
67.5°	684.1	678.3	658.4	662.1	676.2
70°	598.6	587.0	565.0	565.0	575.0
72.5°	521.5	509.4	481.6	483.7	487.9
75°	455.9	436.5	412.3	404.5	414.4
77.5°	384.5	368.8	346.8	341.0	345.2
80°	317.4	305.3	279.6	271.8	277.5
82.5°	251.8	241.8	211.9	206.2	208.3
85°	174.7	172.6	148.5	136.9	140.6
87.5°	93.4	95.0	77.1	69.2	73.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)