

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: P475934

Luminaire Tested: **22GR-LD5-40-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475934  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-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: 3968.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

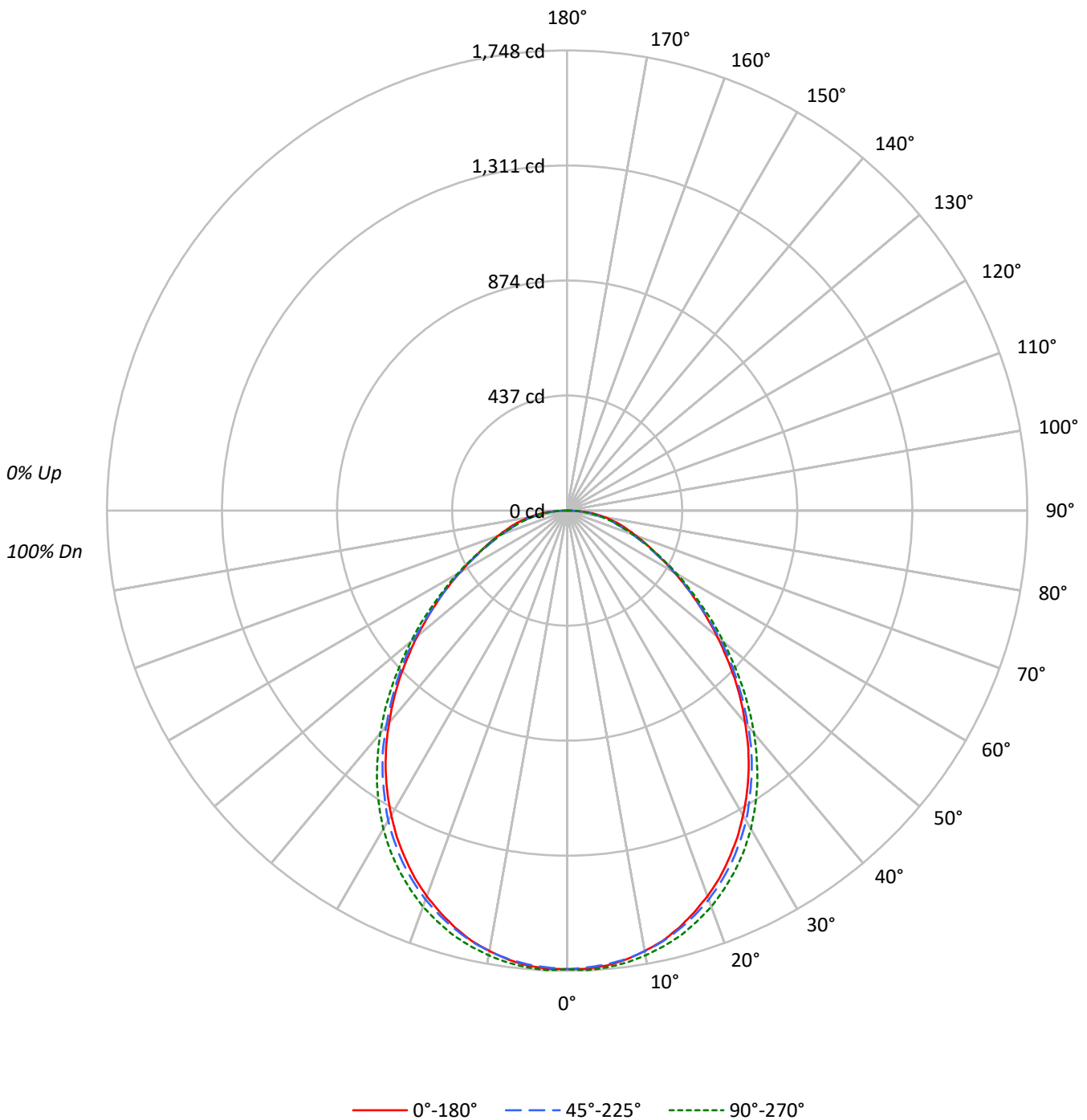
Input Watts (W): 32.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																		
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	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°	4687	4687	4687
5°	4686	4673	4705
10°	4642	4645	4687
15°	4571	4586	4653
20°	4464	4503	4585
25°	4325	4385	4480
30°	4154	4226	4337
35°	3950	4014	4138
40°	3694	3755	3878
45°	3420	3473	3573
50°	3114	3165	3246
55°	2813	2821	2903
60°	2523	2532	2592
65°	2299	2250	2303
70°	2186	2064	2101
75°	2201	1991	2000
80°	2284	2011	1998
85°	2504	2127	2016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.6	4.1
10°-20°	464.9	11.7
20°-30°	680.5	17.1
30°-40°	765.1	19.3
40°-50°	705.5	17.8
50°-60°	543.8	13.7
60°-70°	358.8	9.0
70°-80°	208.8	5.3
80°-90°	76.1	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°	1309.9	33.0
0°-40°	2075.0	52.3
0°-60°	3324.4	83.8
0°-90°	3968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3968.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1735	1731	1730	1738	1742	164
15°	1641	1641	1646	1661	1670	462
25°	1457	1464	1477	1497	1509	670
35°	1202	1208	1222	1247	1260	750
45°	899	900	912	931	939	692
55°	600	598	601	611	619	538
65°	361	359	353	356	362	362
75°	212	203	192	188	192	223
85°	81	80	69	64	65	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1741.9	1738.3	1737.3	1743.9	1747.5
5°	1734.6	1731.0	1730.0	1738.3	1741.9
7.5°	1720.0	1717.1	1718.0	1727.3	1731.9
10°	1698.8	1697.8	1699.8	1709.8	1715.4
12.5°	1674.0	1673.0	1676.6	1687.6	1695.1
15°	1640.8	1640.8	1646.2	1661.0	1670.3
17.5°	1601.1	1603.8	1612.1	1626.9	1636.9
20°	1558.7	1561.7	1572.6	1589.2	1601.1
22.5°	1511.7	1515.6	1526.6	1546.8	1557.0
25°	1456.7	1464.0	1476.9	1497.1	1509.0
27.5°	1399.4	1407.7	1419.6	1444.7	1455.7
30°	1336.8	1342.4	1360.0	1382.9	1395.8
32.5°	1270.6	1276.2	1290.8	1318.6	1329.5
35°	1202.4	1208.0	1221.8	1246.7	1259.6
37.5°	1128.8	1133.4	1150.0	1169.2	1183.1
40°	1051.6	1057.9	1068.9	1092.0	1103.9
42.5°	976.1	978.7	990.7	1013.8	1022.8
45°	898.6	899.6	912.5	930.8	939.0
47.5°	818.5	820.4	836.0	847.0	855.2
50°	743.9	744.9	755.9	766.1	775.3
52.5°	669.4	669.4	675.0	685.9	697.9
55°	599.5	598.5	601.2	611.4	618.7
57.5°	533.2	532.2	535.9	542.2	547.8
60°	468.7	466.7	470.4	474.3	481.6
62.5°	411.7	413.4	408.7	414.3	419.9
65°	361.0	359.1	353.4	356.4	361.7
67.5°	317.6	315.0	305.7	307.4	314.0
70°	277.9	272.6	262.3	262.3	267.0
72.5°	242.1	236.5	223.6	224.6	226.5
75°	211.7	202.7	191.5	187.8	192.4
77.5°	178.6	171.2	161.0	158.3	160.3
80°	147.4	141.8	129.8	126.2	128.9
82.5°	116.9	112.3	98.4	95.7	96.7
85°	81.1	80.1	68.9	63.6	65.3
87.5°	43.4	44.1	35.8	32.2	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)