

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: P475969

Luminaire Tested: **22GR-LD5-36-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475969  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-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: 3756.6 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

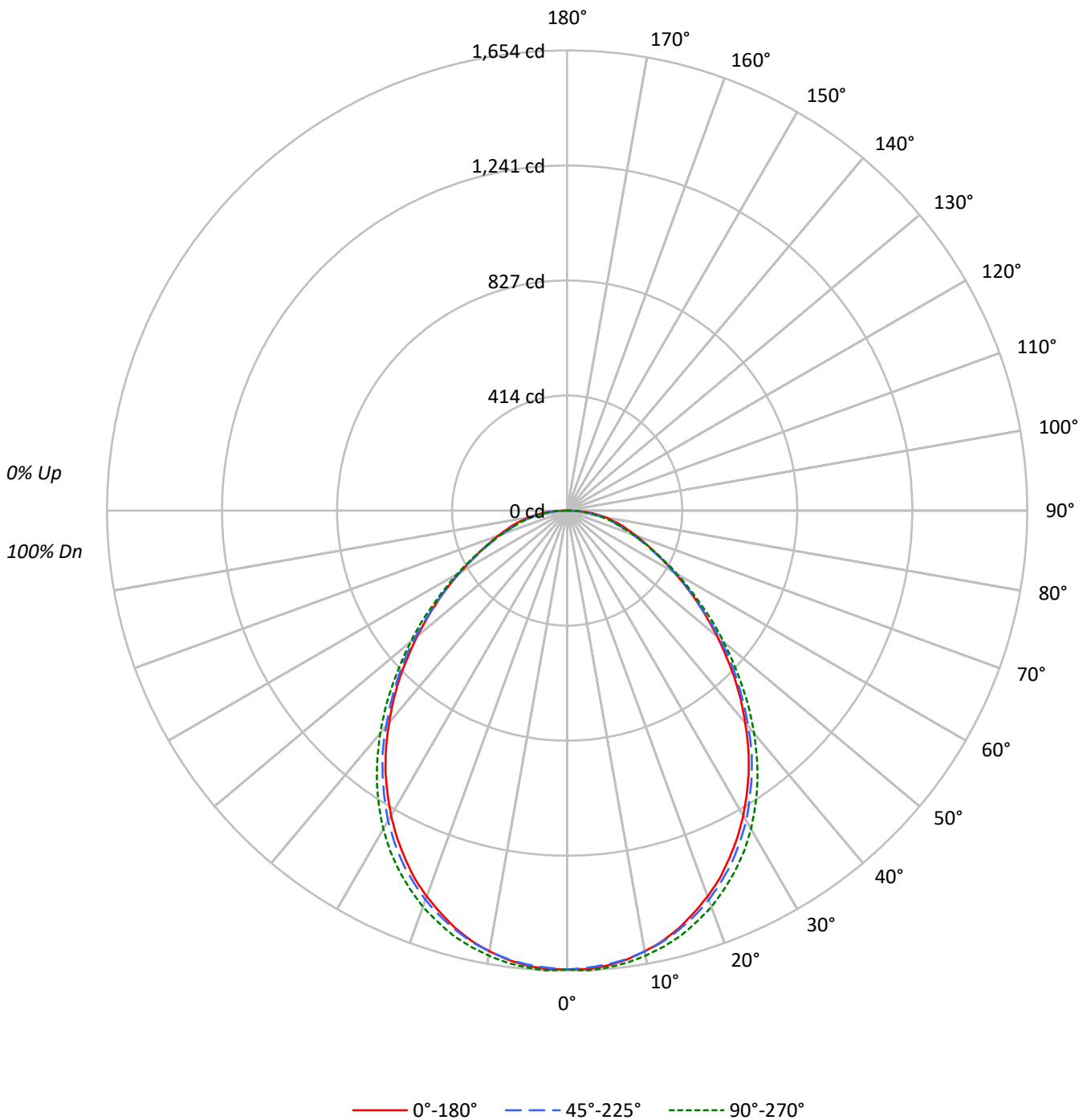
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475969

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475969

CATALOG NUMBER: 22GR-LD5-36-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	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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	4438	4438	4438
5°	4436	4424	4455
10°	4395	4397	4438
15°	4328	4342	4405
20°	4226	4263	4341
25°	4095	4151	4242
30°	3933	4001	4106
35°	3739	3800	3917
40°	3497	3555	3671
45°	3237	3288	3383
50°	2948	2996	3073
55°	2662	2670	2748
60°	2388	2397	2454
65°	2176	2131	2181
70°	2070	1954	1989
75°	2084	1885	1894
80°	2162	1905	1891
85°	2371	2016	1908



TEST NUMBER: P475969

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	4.1
10°-20°	440.1	11.7
20°-30°	644.2	17.1
30°-40°	724.3	19.3
40°-50°	667.9	17.8
50°-60°	514.8	13.7
60°-70°	339.7	9.0
70°-80°	197.7	5.3
80°-90°	72.0	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°	1240.2	33.0
0°-40°	1964.4	52.3
0°-60°	3147.2	83.8
0°-90°	3756.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1642	1639	1638	1646	1649	156
15°	1553	1553	1558	1572	1581	437
25°	1379	1386	1398	1417	1429	634
35°	1138	1144	1157	1180	1192	710
45°	851	852	864	881	889	655
55°	568	567	569	579	586	509
65°	342	340	335	337	342	343
75°	200	192	181	178	182	211
85°	77	76	65	60	62	81
90°	0	0	0	0	0	



TEST NUMBER: P475969

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1649.1	1649.1	1649.1	1649.1	1649.1
2.5°	1649.1	1645.6	1644.7	1650.9	1654.4
5°	1642.2	1638.7	1637.8	1645.6	1649.1
7.5°	1628.3	1625.6	1626.5	1635.3	1639.6
10°	1608.3	1607.4	1609.2	1618.7	1624.0
12.5°	1584.8	1583.8	1587.3	1597.7	1604.8
15°	1553.4	1553.4	1558.5	1572.5	1581.3
17.5°	1515.8	1518.3	1526.2	1540.3	1549.7
20°	1475.7	1478.4	1488.8	1504.5	1515.8
22.5°	1431.2	1434.9	1445.2	1464.4	1474.1
25°	1379.1	1386.0	1398.2	1417.3	1428.6
27.5°	1324.9	1332.7	1344.0	1367.8	1378.1
30°	1265.6	1270.9	1287.5	1309.2	1321.4
32.5°	1202.9	1208.2	1222.0	1248.3	1258.7
35°	1138.3	1143.6	1156.7	1180.3	1192.5
37.5°	1068.7	1073.0	1088.7	1106.9	1120.1
40°	995.5	1001.5	1011.9	1033.8	1045.1
42.5°	924.1	926.6	937.9	959.8	968.3
45°	850.7	851.6	863.9	881.2	889.0
47.5°	774.9	776.7	791.5	801.8	809.7
50°	704.3	705.2	715.6	725.3	734.0
52.5°	633.7	633.7	639.0	649.4	660.7
55°	567.5	566.6	569.1	578.8	585.8
57.5°	504.8	503.9	507.3	513.3	518.6
60°	443.7	441.9	445.3	449.0	455.9
62.5°	389.7	391.3	387.0	392.3	397.6
65°	341.8	339.9	334.6	337.4	342.5
67.5°	300.7	298.2	289.4	291.0	297.3
70°	263.1	258.1	248.4	248.4	252.8
72.5°	229.2	223.9	211.7	212.6	214.5
75°	200.4	191.9	181.3	177.8	182.2
77.5°	169.0	162.1	152.4	149.9	151.7
80°	139.5	134.2	122.9	119.5	122.0
82.5°	110.7	106.3	93.2	90.6	91.6
85°	76.8	75.9	65.3	60.2	61.8
87.5°	41.0	41.7	33.9	30.4	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)