

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: P475932

Luminaire Tested: **22GR-LD5-32-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475932  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-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: 3158.4 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

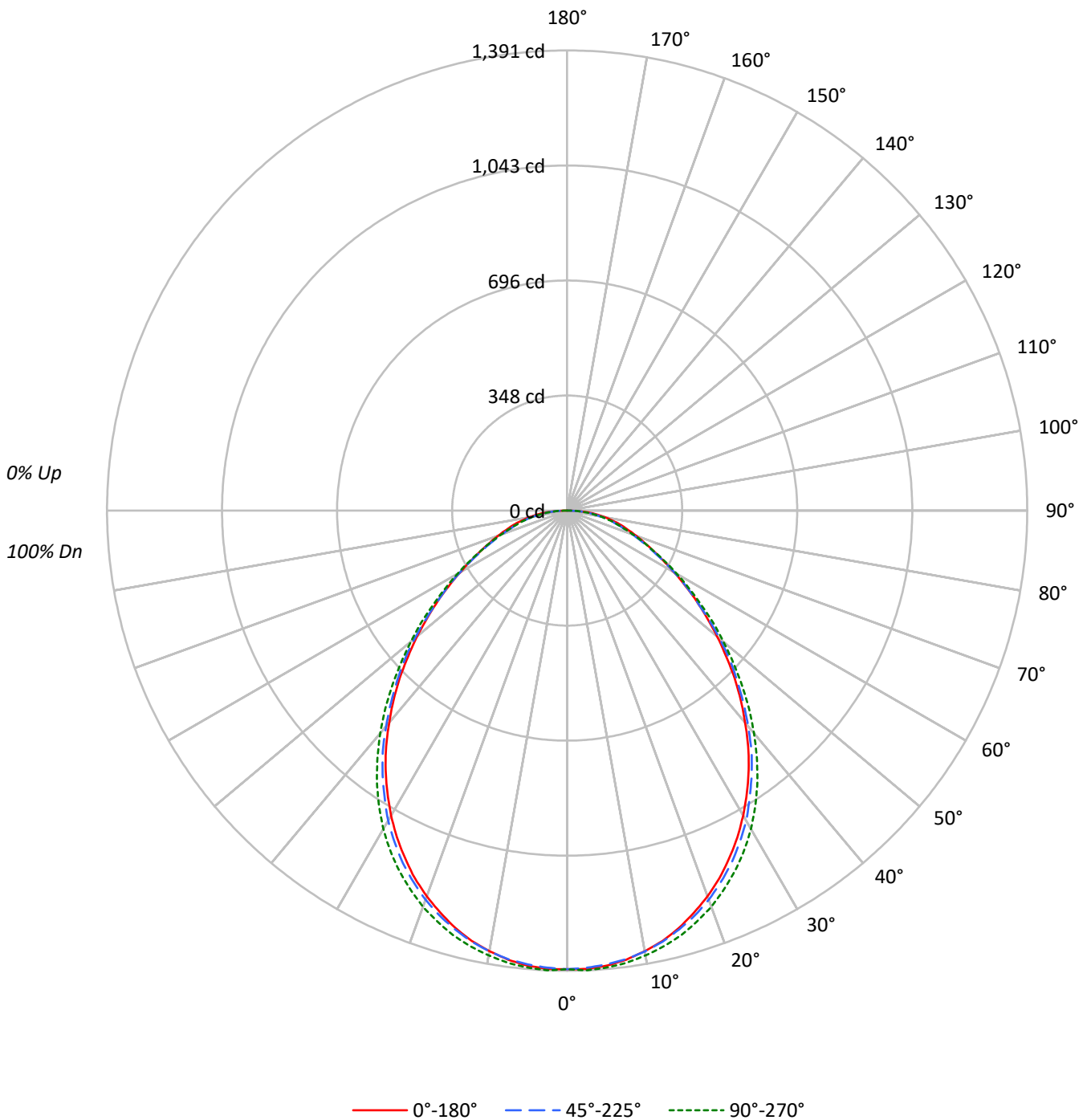
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475932

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475932

CATALOG NUMBER: 22GR-LD5-32-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°	3731	3731	3731
5°	3730	3720	3745
10°	3695	3697	3731
15°	3638	3650	3704
20°	3553	3584	3649
25°	3443	3490	3566
30°	3306	3364	3452
35°	3144	3195	3294
40°	2940	2989	3087
45°	2722	2764	2844
50°	2479	2519	2583
55°	2239	2245	2311
60°	2007	2015	2063
65°	1829	1791	1833
70°	1740	1643	1672
75°	1752	1585	1593
80°	1818	1601	1590
85°	1995	1695	1606



TEST NUMBER: P475932

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.0	4.1
10°-20°	370.0	11.7
20°-30°	541.6	17.1
30°-40°	609.0	19.3
40°-50°	561.6	17.8
50°-60°	432.8	13.7
60°-70°	285.6	9.0
70°-80°	166.2	5.3
80°-90°	60.5	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°	1042.7	33.0
0°-40°	1651.6	52.3
0°-60°	2646.1	83.8
0°-90°	3158.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1381	1378	1377	1384	1386	131
15°	1306	1306	1310	1322	1330	368
25°	1160	1165	1176	1192	1201	533
35°	957	962	972	992	1003	597
45°	715	716	726	741	747	551
55°	477	476	478	487	492	428
65°	287	286	281	284	288	288
75°	168	161	152	150	153	177
85°	65	64	55	51	52	68
90°	0	0	0	0	0	



TEST NUMBER: P475932

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1386.5	1386.5	1386.5	1386.5	<i>1386.5</i>
2.5°	<i>1386.5</i>	<i>1383.6</i>	<i>1382.8</i>	<i>1388.0</i>	<i>1391.0</i>
5°	1380.7	1377.8	1377.0	1383.6	<i>1386.5</i>
7.5°	1369.0	1366.7	1367.5	1374.9	<i>1378.5</i>
10°	1352.2	1351.4	1353.0	1360.9	<i>1365.4</i>
12.5°	1332.4	1331.6	1334.5	1343.3	<i>1349.3</i>
15°	1306.0	1306.0	1310.3	1322.1	<i>1329.5</i>
17.5°	1274.4	1276.6	1283.2	1295.0	<i>1302.9</i>
20°	1240.7	1243.0	1251.7	1264.9	<i>1274.4</i>
22.5°	1203.3	1206.4	1215.1	1231.2	<i>1239.3</i>
25°	1159.5	1165.3	1175.5	1191.6	<i>1201.1</i>
27.5°	1113.9	1120.5	1130.0	1150.0	<i>1158.7</i>
30°	1064.1	1068.5	1082.5	1100.7	<i>1111.0</i>
32.5°	1011.3	1015.8	1027.4	1049.5	<i>1058.2</i>
35°	957.0	961.5	972.5	992.3	<i>1002.6</i>
37.5°	898.5	902.2	915.3	930.7	<i>941.7</i>
40°	837.0	842.1	850.8	869.2	<i>878.7</i>
42.5°	776.9	779.0	788.5	807.0	<i>814.1</i>
45°	715.3	716.0	726.3	740.8	<i>747.4</i>
47.5°	651.5	653.0	665.4	674.2	<i>680.7</i>
50°	592.1	592.9	601.6	609.8	<i>617.1</i>
52.5°	532.8	532.8	537.3	546.0	<i>555.5</i>
55°	477.2	476.4	478.5	486.7	<i>492.5</i>
57.5°	424.4	423.6	426.6	431.6	<i>436.1</i>
60°	373.0	371.5	374.4	377.5	<i>383.3</i>
62.5°	327.7	329.0	325.3	329.8	<i>334.3</i>
65°	287.3	285.8	281.3	283.7	<i>287.9</i>
67.5°	252.8	250.7	243.3	244.7	<i>249.9</i>
70°	221.2	217.0	208.8	208.8	<i>212.5</i>
72.5°	192.7	188.3	178.0	178.8	<i>180.3</i>
75°	168.5	161.3	152.4	149.5	<i>153.2</i>
77.5°	142.1	136.3	128.2	126.0	<i>127.6</i>
80°	117.3	112.8	103.3	100.4	<i>102.6</i>
82.5°	93.1	89.4	78.3	76.2	<i>77.0</i>
85°	64.6	63.8	54.9	50.6	<i>52.0</i>
87.5°	34.5	35.1	28.5	25.6	<i>27.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)