

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: P476028

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476028  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A-UNV-L830-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3063.7 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

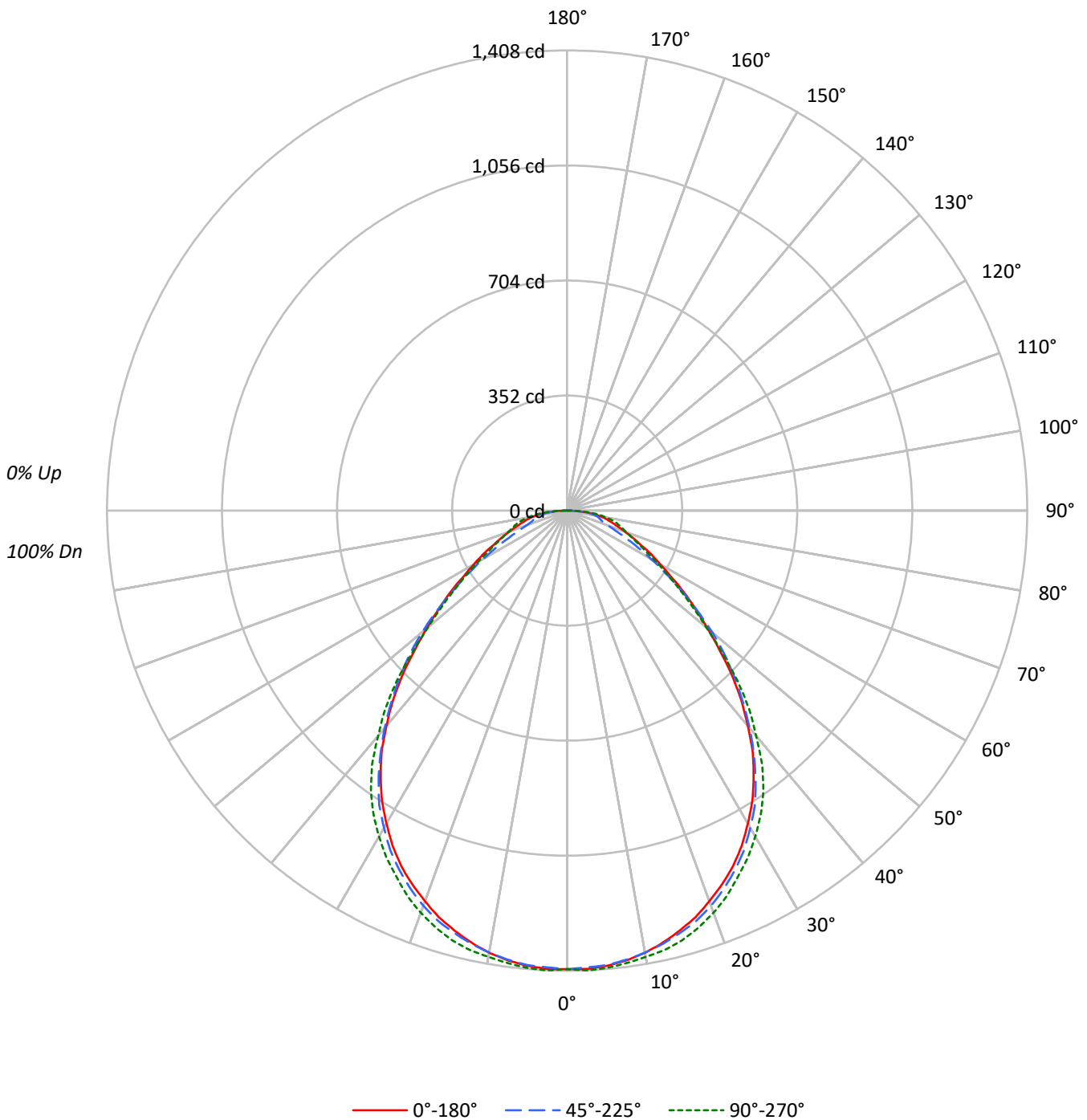
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°	45°	90°
0°	3775	3775	3775
5°	3777	3771	3794
10°	3754	3752	3789
15°	3706	3726	3791
20°	3642	3685	3750
25°	3565	3605	3670
30°	3436	3483	3577
35°	3267	3304	3438
40°	3021	3053	3160
45°	2713	2762	2806
50°	2346	2429	2322
55°	2047	1993	1967
60°	1773	1596	1704
65°	1584	1253	1530
70°	1470	1038	1510
75°	1467	1097	1675
80°	1626	1379	1889
85°	1695	1497	2137



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	4.3
10°-20°	378.1	12.3
20°-30°	559.3	18.3
30°-40°	631.1	20.6
40°-50°	556.3	18.2
50°-60°	381.6	12.5
60°-70°	225.2	7.4
70°-80°	140.5	4.6
80°-90°	58.6	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°	1070.2	34.9
0°-40°	1701.3	55.5
0°-60°	2639.3	86.1
0°-90°	3063.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3063.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1398	1395	1396	1401	1404	133
15°	1330	1332	1338	1354	1361	375
25°	1201	1205	1214	1230	1236	551
35°	995	1003	1006	1030	1047	620
45°	713	716	726	730	737	548
55°	436	426	425	411	419	391
65°	249	219	197	228	240	251
75°	141	127	106	148	161	151
85°	55	51	48	63	69	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1403.0	1403.0	1403.0	1403.0	1403.0
2.5°	1403.8	1400.2	1398.8	1404.5	1408.1
5°	1398.1	1395.3	1396.0	1400.9	1404.5
7.5°	1388.1	1386.0	1386.0	1393.0	1396.6
10°	1373.8	1373.2	1373.2	1381.7	1386.6
12.5°	1353.9	1354.5	1357.3	1368.9	1377.3
15°	1330.4	1331.7	1337.5	1353.9	1360.9
17.5°	1304.7	1304.7	1316.0	1328.9	1337.5
20°	1271.9	1274.0	1286.8	1301.1	1309.6
22.5°	1238.3	1241.9	1252.6	1269.1	1276.8
25°	1200.6	1204.9	1214.2	1229.8	1236.2
27.5°	1156.4	1162.1	1172.1	1183.4	1197.0
30°	1105.7	1114.4	1120.8	1136.4	1151.3
32.5°	1054.4	1062.3	1069.5	1085.9	1102.9
35°	994.6	1003.1	1005.9	1030.2	1046.6
37.5°	933.3	936.8	938.2	962.5	980.2
40°	859.9	866.9	869.1	888.4	899.7
42.5°	789.1	792.1	796.3	810.6	824.2
45°	712.9	716.5	725.7	730.1	737.2
47.5°	633.1	643.9	654.4	640.8	641.6
50°	560.3	569.0	580.3	554.6	554.6
52.5°	495.4	499.7	500.5	479.2	483.3
55°	436.3	425.6	424.8	410.7	419.2
57.5°	377.1	363.0	357.9	353.5	363.5
60°	329.4	303.7	296.6	303.0	316.6
62.5°	290.1	257.3	243.7	260.1	272.4
65°	248.8	218.8	196.8	227.5	240.3
67.5°	216.8	188.3	159.8	203.2	212.4
70°	186.8	164.7	131.9	184.7	191.9
72.5°	162.6	145.4	114.1	166.8	175.4
75°	141.1	127.0	105.5	147.5	161.1
77.5°	124.1	108.3	98.5	127.5	143.9
80°	104.9	89.0	89.0	107.0	121.9
82.5°	82.6	69.8	72.1	87.0	97.7
85°	54.9	51.3	48.5	63.4	69.2
87.5°	27.7	28.5	25.7	32.8	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)