

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: P213812

Luminaire Tested: **22GR-LD5-40-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-A125-UNV-L930-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3216.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

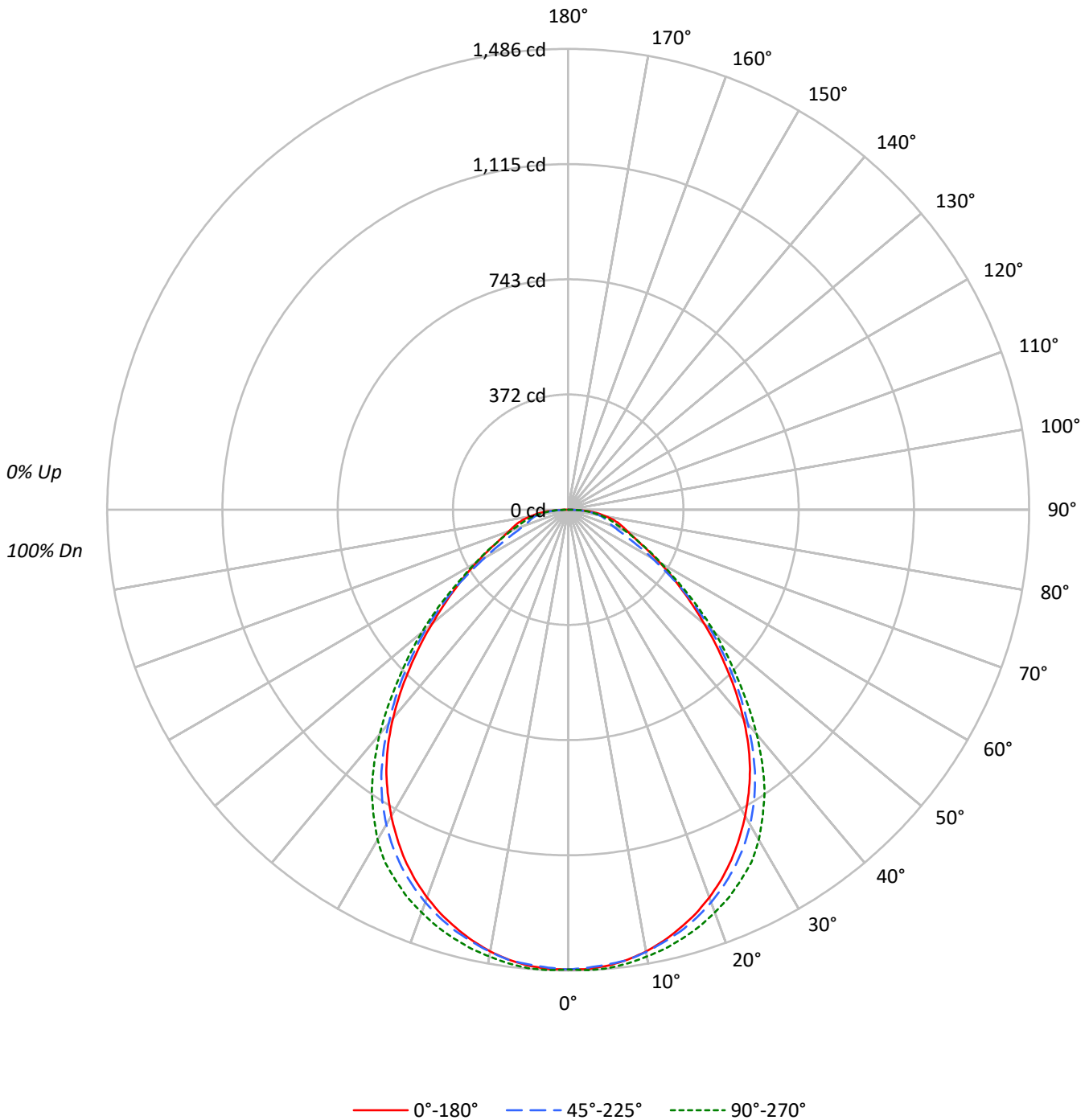
Input Watts (W): 38.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

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

	0°	45°	90°
0°	4747	4747	4747
5°	4744	4732	4771
10°	4704	4709	4758
15°	4629	4662	4741
20°	4533	4592	4710
25°	4401	4491	4655
30°	4217	4337	4545
35°	3996	4107	4315
40°	3674	3765	3953
45°	3264	3383	3505
50°	2850	2981	3071
55°	2478	2512	2604
60°	2181	1998	2224
65°	1938	1597	1949
70°	1903	1419	1798
75°	2078	1559	1837
80°	2281	1852	1964
85°	2726	2150	2205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	4.4
10°-20°	397.3	12.4
20°-30°	586.6	18.2
30°-40°	656.3	20.4
40°-50°	576.4	17.9
50°-60°	407.8	12.7
60°-70°	237.4	7.4
70°-80°	147.9	4.6
80°-90°	66.2	2.1
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°	1124.0	34.9
0°-40°	1780.3	55.4
0°-60°	2764.5	86.0
0°-90°	3216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1476	1472	1472	1479	1484	140
15°	1396	1399	1406	1421	1430	393
25°	1246	1251	1271	1301	1318	572
35°	1022	1027	1050	1082	1104	636
45°	721	729	747	765	774	557
55°	444	453	450	458	466	401
65°	256	235	211	229	257	259
75°	168	145	126	129	148	175
85°	74	77	58	57	60	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1482.4	1479.4	1478.0	1483.2	1486.2
5°	1475.7	1471.9	1471.9	1479.4	1484.0
7.5°	1463.7	1459.9	1464.4	1471.2	1475.7
10°	1446.5	1444.9	1448.0	1457.0	1463.0
12.5°	1423.9	1424.7	1427.7	1442.0	1449.4
15°	1396.2	1399.2	1406.0	1421.0	1429.9
17.5°	1366.2	1368.5	1379.0	1396.2	1408.9
20°	1330.2	1334.7	1347.4	1369.2	1381.9
22.5°	1290.5	1295.8	1311.5	1337.7	1353.5
25°	1245.5	1250.7	1271.0	1301.0	1317.5
27.5°	1194.5	1202.8	1225.2	1258.2	1280.8
30°	1140.5	1147.3	1172.8	1210.2	1229.0
32.5°	1082.8	1091.0	1115.0	1151.0	1167.5
35°	1022.0	1026.6	1050.5	1082.0	1103.8
37.5°	953.1	955.3	977.8	1007.0	1026.6
40°	878.8	880.4	900.5	928.3	945.5
42.5°	801.6	802.4	824.1	845.1	860.1
45°	720.6	728.8	746.9	764.8	773.8
47.5°	647.9	653.9	670.3	686.1	694.4
50°	572.1	587.1	598.4	606.6	616.4
52.5°	506.9	519.6	522.7	532.4	540.6
55°	443.9	452.9	449.9	458.1	466.4
57.5°	390.6	386.1	376.4	390.6	401.1
60°	340.5	328.4	311.9	331.4	347.2
62.5°	295.4	275.9	255.7	275.2	301.4
65°	255.7	235.4	210.7	229.4	257.2
67.5°	225.7	204.7	175.5	194.2	222.0
70°	203.2	181.5	151.5	167.2	192.0
72.5°	185.2	162.0	135.7	146.2	167.2
75°	167.9	144.7	126.0	129.0	148.5
77.5°	147.7	130.5	115.5	114.0	129.0
80°	123.7	118.5	100.4	98.2	106.5
82.5°	102.0	99.7	82.5	80.2	83.2
85°	74.2	77.2	58.5	57.0	60.0
87.5°	39.0	42.7	30.7	32.2	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)