

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: P225714

Luminaire Tested: **22GR-LD5-28-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225714  
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-LD5-28-A125-UNV-L930-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2324.7 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

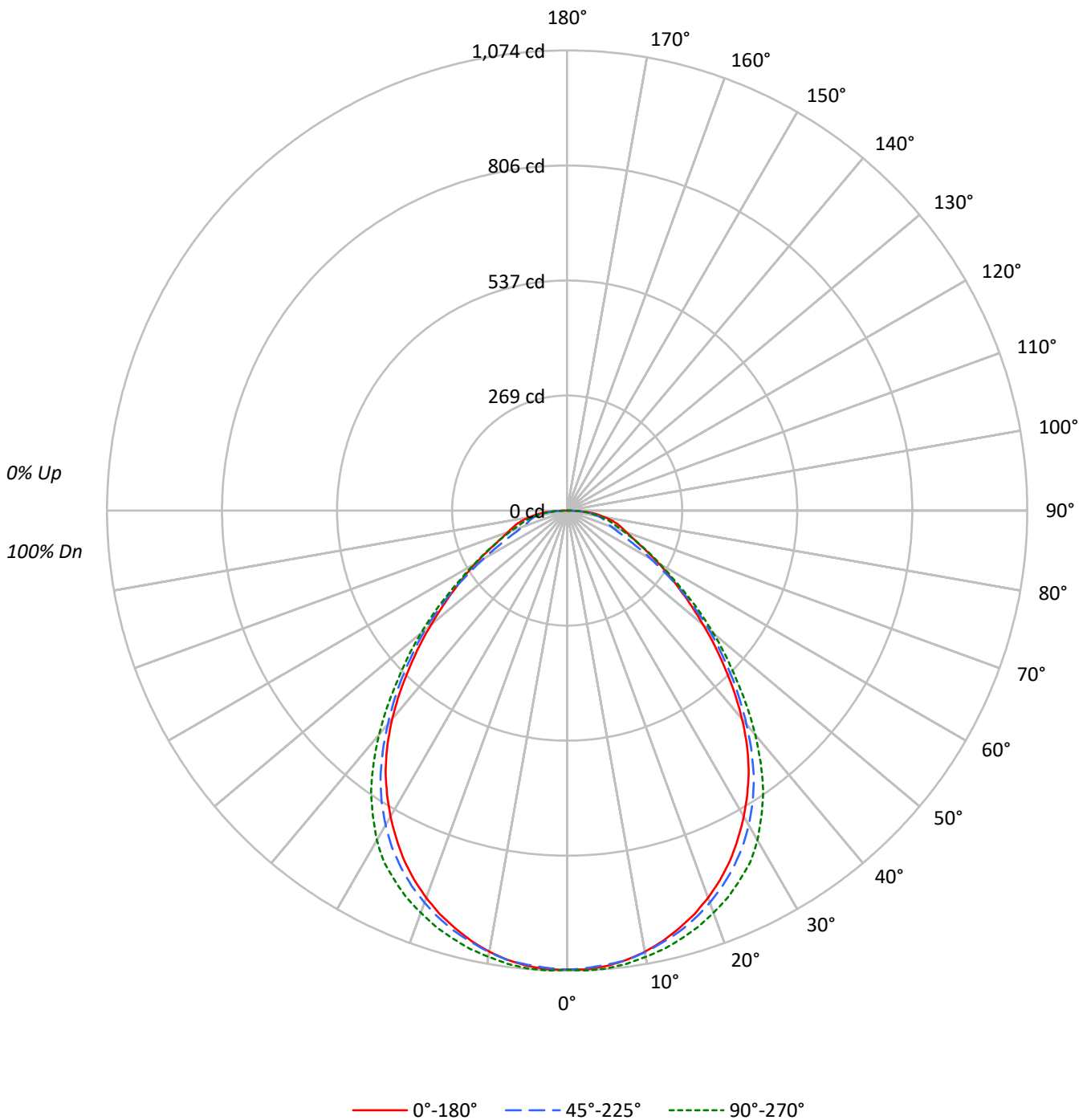
Input Watts (W): 22.986  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

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

	0°	45°	90°
0°	3432	3432	3432
5°	3429	3420	3448
10°	3400	3403	3439
15°	3346	3370	3427
20°	3277	3319	3404
25°	3181	3246	3365
30°	3049	3135	3285
35°	2888	2969	3119
40°	2656	2722	2857
45°	2359	2445	2534
50°	2060	2155	2220
55°	1792	1816	1882
60°	1576	1444	1607
65°	1400	1154	1409
70°	1375	1025	1299
75°	1502	1126	1328
80°	1651	1341	1420
85°	1970	1554	1595



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	4.4
10°-20°	287.2	12.4
20°-30°	424.0	18.2
30°-40°	474.4	20.4
40°-50°	416.6	17.9
50°-60°	294.8	12.7
60°-70°	171.6	7.4
70°-80°	106.9	4.6
80°-90°	47.9	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°	812.5	34.9
0°-40°	1286.9	55.4
0°-60°	1998.3	86.0
0°-90°	2324.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2324.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1067	1064	1064	1069	1073	101
15°	1009	1011	1016	1027	1034	284
25°	900	904	919	940	952	414
35°	739	742	759	782	798	459
45°	521	527	540	553	559	403
55°	321	327	325	331	337	290
65°	185	170	152	166	186	187
75°	121	105	91	93	107	127
85°	54	56	42	41	43	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1071.6	1069.4	1068.3	1072.1	1074.3
5°	1066.7	1064.0	1064.0	1069.4	1072.6
7.5°	1058.0	1055.3	1058.5	1063.5	1066.7
10°	1045.6	1044.4	1046.6	1053.1	1057.5
12.5°	1029.3	1029.8	1032.0	1042.3	1047.7
15°	1009.3	1011.4	1016.3	1027.1	1033.6
17.5°	987.5	989.2	996.8	1009.3	1018.4
20°	961.5	964.8	974.0	989.7	998.9
22.5°	932.8	936.6	948.0	966.9	978.3
25°	900.3	904.0	918.7	940.4	952.3
27.5°	863.5	869.4	885.7	909.5	925.8
30°	824.4	829.3	847.7	874.9	888.4
32.5°	782.7	788.7	806.0	832.0	843.9
35°	738.7	742.0	759.4	782.1	797.9
37.5°	688.9	690.5	706.8	727.9	742.0
40°	635.3	636.3	651.0	671.0	683.5
42.5°	579.4	580.0	595.6	610.8	621.7
45°	520.9	526.8	539.9	552.8	559.4
47.5°	468.3	472.6	484.5	495.9	501.9
50°	413.5	424.4	432.6	438.5	445.5
52.5°	366.4	375.6	377.8	384.8	390.8
55°	320.9	327.3	325.2	331.2	337.1
57.5°	282.4	279.1	272.1	282.4	290.0
60°	246.1	237.4	225.5	239.6	250.9
62.5°	213.5	199.4	184.8	198.9	217.9
65°	184.8	170.2	152.3	165.9	185.9
67.5°	163.2	148.0	126.9	140.4	160.5
70°	146.9	131.2	109.5	120.9	138.7
72.5°	133.9	117.1	98.1	105.7	120.9
75°	121.4	104.6	91.0	93.2	107.3
77.5°	106.8	94.3	83.5	82.4	93.2
80°	89.5	85.6	72.7	71.0	77.0
82.5°	73.7	72.1	59.6	58.0	60.2
85°	53.6	55.8	42.3	41.2	43.4
87.5°	28.2	30.9	22.2	23.3	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)