

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: P476086

Luminaire Tested: **22GR-LD5-24-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476086  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A125-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2442.7 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

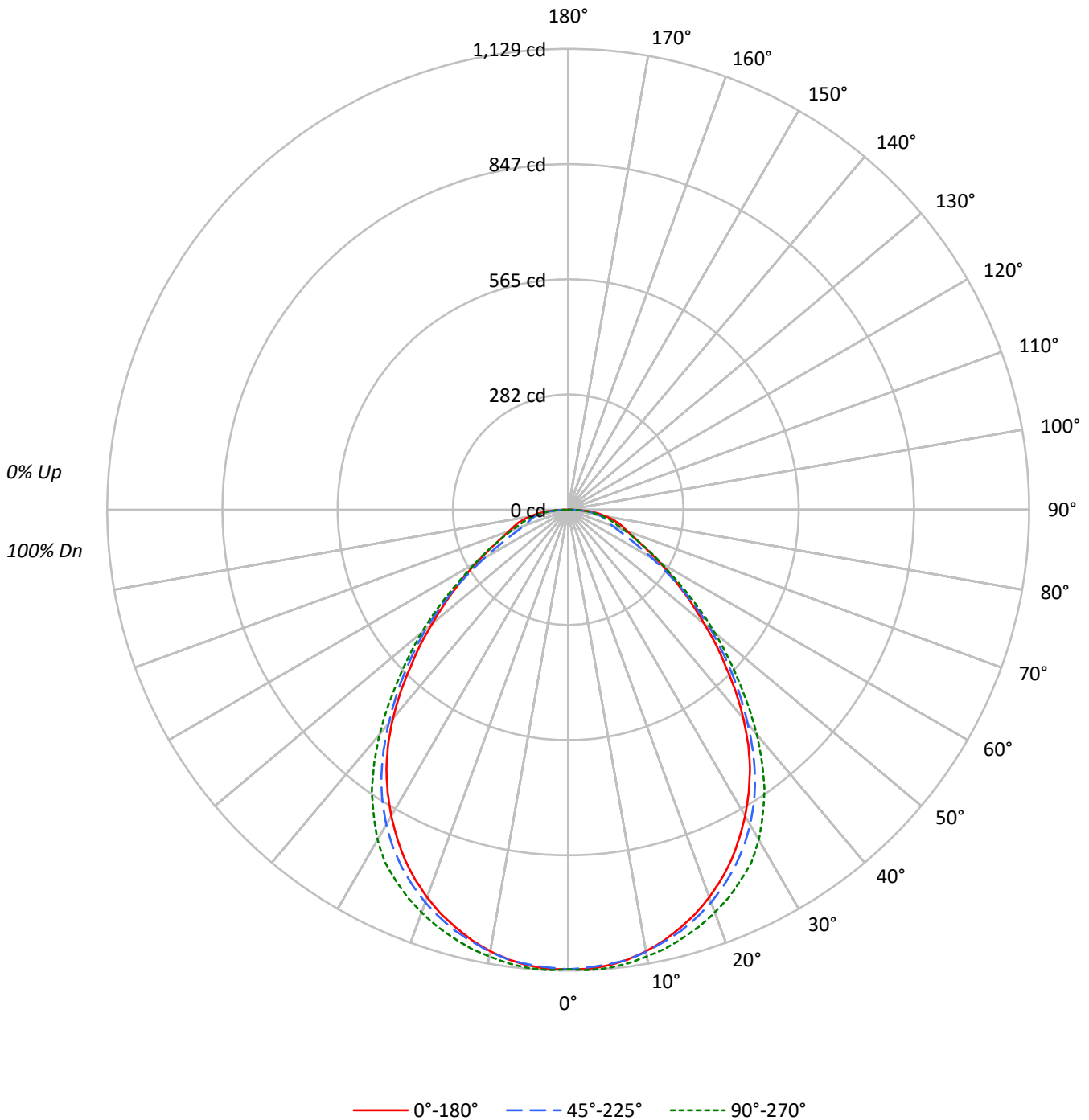
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3030	3030	3030
5°	3028	3020	3045
10°	3002	3005	3036
15°	2954	2975	3025
20°	2893	2931	3006
25°	2809	2866	2972
30°	2692	2768	2901
35°	2550	2621	2754
40°	2345	2403	2523
45°	2083	2159	2237
50°	1819	1903	1960
55°	1582	1604	1662
60°	1392	1275	1419
65°	1237	1019	1244
70°	1214	905	1148
75°	1327	995	1172
80°	1457	1182	1254
85°	1741	1374	1405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	4.4
10°-20°	301.8	12.4
20°-30°	445.5	18.2
30°-40°	498.5	20.4
40°-50°	437.8	17.9
50°-60°	309.8	12.7
60°-70°	180.3	7.4
70°-80°	112.4	4.6
80°-90°	50.3	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°	853.7	34.9
0°-40°	1352.2	55.4
0°-60°	2099.8	86.0
0°-90°	2442.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1121	1118	1118	1124	1127	106
15°	1060	1063	1068	1079	1086	299
25°	946	950	965	988	1001	435
35°	776	780	798	822	838	483
45°	547	554	567	581	588	423
55°	337	344	342	348	354	305
65°	194	179	160	174	195	197
75°	128	110	96	98	113	133
85°	56	59	44	43	46	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1126.0	1126.0	1126.0	1126.0	1126.0
2.5°	1126.0	1123.7	1122.5	1126.6	1128.8
5°	1120.9	1118.0	1118.0	1123.7	1127.2
7.5°	1111.8	1108.9	1112.3	1117.4	1120.9
10°	1098.7	1097.5	1099.8	1106.7	1111.2
12.5°	1081.5	1082.1	1084.4	1095.2	1101.0
15°	1060.4	1062.7	1068.0	1079.3	1086.0
17.5°	1037.7	1039.5	1047.3	1060.4	1070.2
20°	1010.4	1013.7	1023.5	1039.9	1049.7
22.5°	980.1	984.2	996.1	1016.1	1028.0
25°	946.1	950.0	965.3	988.1	1000.8
27.5°	907.3	913.5	930.7	955.7	972.7
30°	866.3	871.5	890.7	919.2	933.5
32.5°	822.5	828.7	846.9	874.2	886.8
35°	776.2	779.7	797.9	821.9	838.3
37.5°	723.9	725.6	742.6	764.9	779.7
40°	667.6	668.6	684.0	705.1	718.2
42.5°	608.8	609.4	626.0	641.8	653.3
45°	547.3	553.6	567.2	580.9	587.7
47.5°	492.0	496.7	509.2	521.1	527.4
50°	434.6	445.9	454.5	460.8	468.2
52.5°	385.0	394.7	396.9	404.3	410.6
55°	337.1	344.0	341.8	347.9	354.3
57.5°	296.7	293.2	285.9	296.7	304.7
60°	258.6	249.4	236.9	251.8	263.7
62.5°	224.4	209.6	194.2	209.0	228.9
65°	194.2	178.9	160.0	174.4	195.3
67.5°	171.5	155.5	133.2	147.5	168.6
70°	154.3	137.9	115.0	127.0	145.9
72.5°	140.7	123.0	103.1	111.1	127.0
75°	127.6	109.9	95.7	98.0	112.7
77.5°	112.3	99.2	87.7	86.5	98.0
80°	94.0	90.0	76.3	74.6	80.9
82.5°	77.5	75.8	62.7	60.9	63.3
85°	56.4	58.6	44.5	43.2	45.5
87.5°	29.7	32.4	23.4	24.6	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)