

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: P476324

Luminaire Tested: **14GR-LD5-28-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476324  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-A125-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2834.4 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

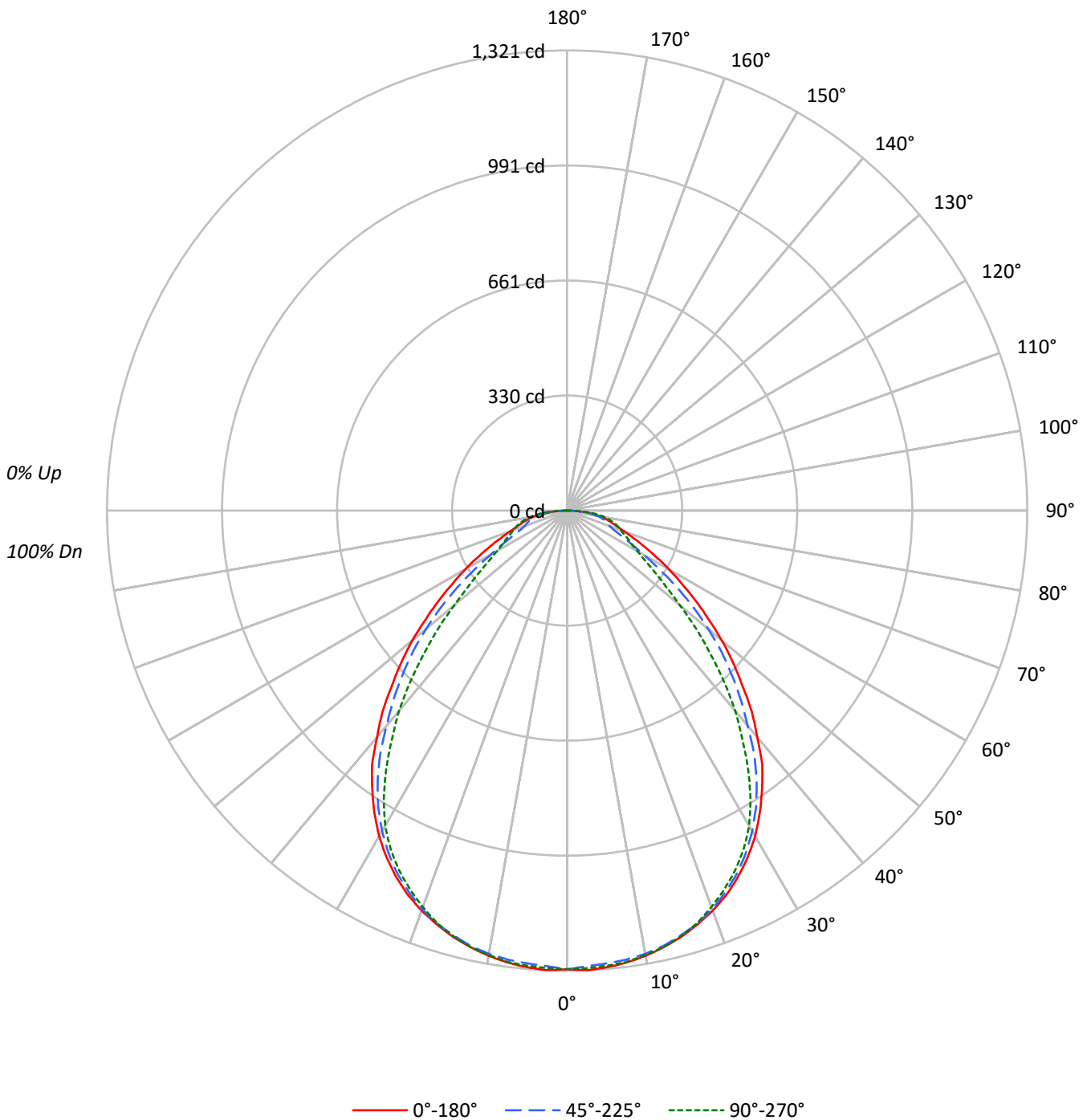
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

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

	0°	45°	90°
0°	3543	3543	3543
5°	3555	3525	3542
10°	3546	3530	3540
15°	3529	3516	3523
20°	3499	3486	3469
25°	3446	3419	3385
30°	3355	3301	3246
35°	3205	3116	2975
40°	2982	2832	2638
45°	2710	2547	2211
50°	2426	2212	1762
55°	2107	1805	1431
60°	1819	1365	1248
65°	1556	1091	1224
70°	1373	1016	1286
75°	1369	1164	1466
80°	1480	1358	1684
85°	1587	1445	1933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	4.4
10°-20°	356.7	12.6
20°-30°	529.3	18.7
30°-40°	587.8	20.7
40°-50°	506.9	17.9
50°-60°	343.8	12.1
60°-70°	198.8	7.0
70°-80°	129.8	4.6
80°-90°	56.6	2.0
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°	1010.7	35.7
0°-40°	1598.5	56.4
0°-60°	2449.2	86.4
0°-90°	2834.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1316	1311	1305	1314	1311	125
15°	1267	1264	1262	1271	1265	357
25°	1161	1159	1151	1148	1140	534
35°	976	966	948	922	906	608
45°	712	701	669	614	581	550
55°	449	440	385	327	305	404
65°	244	217	171	175	192	246
75°	132	119	112	125	141	140
85°	51	50	47	65	63	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1316.7	1316.7	1316.7	1316.7	1316.7
2.5°	1320.6	1316.0	1308.8	1316.7	1314.7
5°	1316.0	1310.8	1304.8	1314.1	1311.4
7.5°	1308.8	1303.5	1300.2	1308.1	1306.8
10°	1297.6	1293.6	1291.7	1301.5	1295.6
12.5°	1283.8	1280.5	1279.8	1287.7	1283.1
15°	1266.6	1264.0	1262.0	1270.6	1264.7
17.5°	1245.6	1244.2	1242.9	1246.9	1241.6
20°	1221.8	1220.5	1217.2	1217.9	1211.3
22.5°	1194.2	1192.9	1186.3	1185.0	1177.7
25°	1160.6	1159.3	1151.4	1148.1	1140.2
27.5°	1122.4	1123.0	1109.9	1103.9	1096.7
30°	1079.6	1076.9	1062.4	1052.6	1044.7
32.5°	1029.5	1026.2	1009.1	993.3	979.5
35°	975.5	966.3	948.5	922.1	905.7
37.5°	920.2	907.7	881.3	847.7	826.0
40°	849.0	835.9	806.2	768.0	750.9
42.5°	785.1	771.3	738.4	693.6	666.6
45°	712.0	700.8	669.2	613.9	581.0
47.5°	645.5	633.6	601.4	536.2	503.9
50°	579.6	566.5	528.3	457.8	420.9
52.5°	511.1	503.9	457.1	386.6	357.0
55°	449.2	440.0	384.7	327.4	305.0
57.5°	389.9	374.8	314.8	272.0	263.5
60°	337.9	316.8	253.6	229.9	231.9
62.5°	288.5	263.5	208.1	196.9	208.1
65°	244.4	216.7	171.3	175.2	192.3
67.5°	205.5	179.2	145.6	161.4	175.9
70°	174.5	152.8	129.1	146.9	163.4
72.5°	149.5	135.0	121.2	135.0	152.8
75°	131.7	119.2	112.0	125.1	141.0
77.5°	115.3	105.4	102.1	112.6	125.8
80°	95.5	90.9	87.6	101.4	108.7
82.5°	73.8	71.8	69.2	86.3	89.6
85°	51.4	50.1	46.8	65.2	62.6
87.5°	27.0	25.7	23.7	34.3	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)