

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: P291202

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2961.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

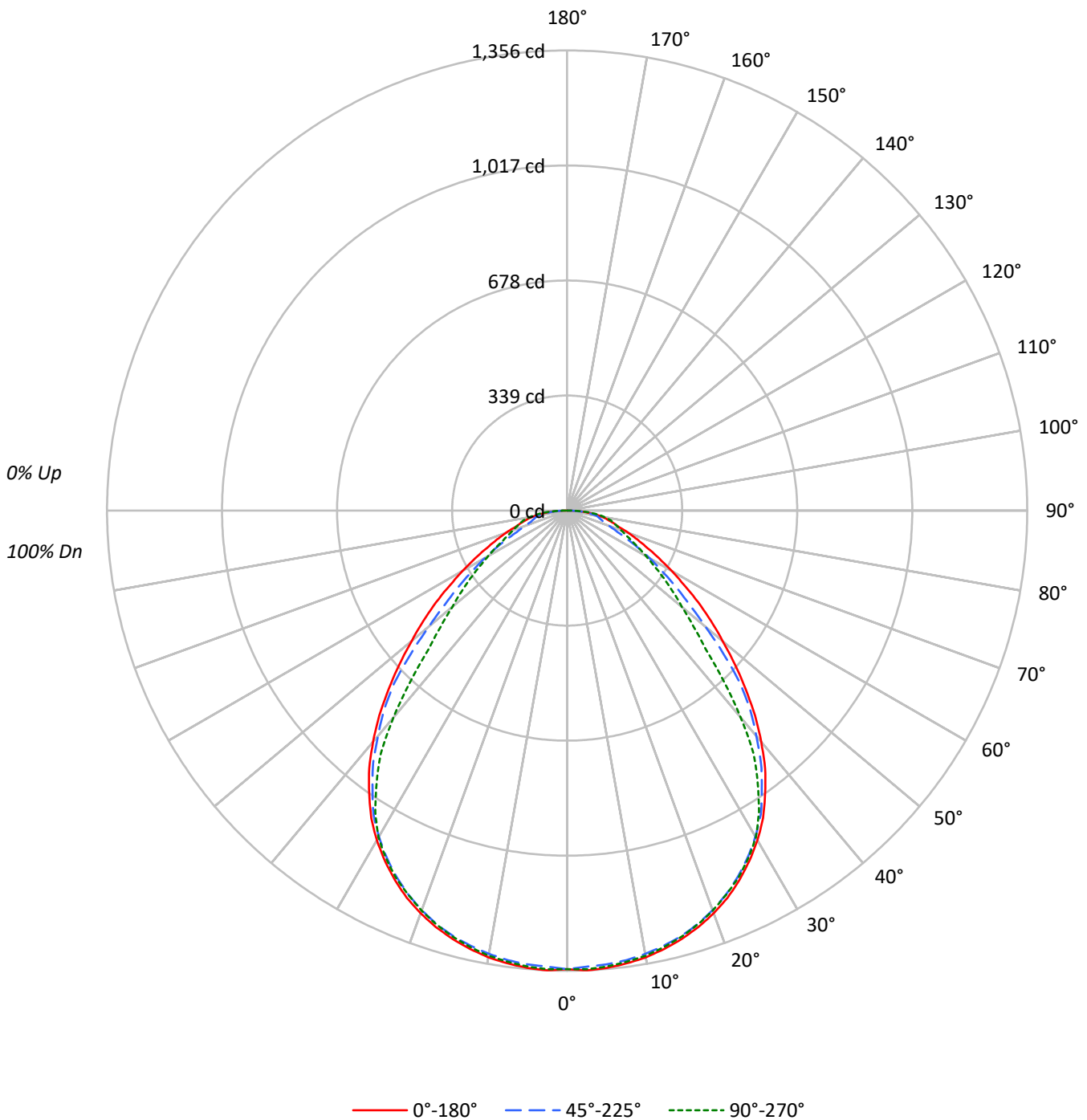
Input Watts (W): 22.599  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P291202

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P291202

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

**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	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

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

	0°	45°	90°
0°	3636	3636	3636
5°	3654	3626	3642
10°	3653	3625	3640
15°	3640	3617	3623
20°	3616	3588	3592
25°	3567	3535	3545
30°	3486	3447	3456
35°	3342	3286	3216
40°	3125	3048	2797
45°	2829	2748	2193
50°	2502	2223	1849
55°	2214	1827	1631
60°	1911	1512	1446
65°	1662	1203	1330
70°	1503	1032	1330
75°	1443	1078	1486
80°	1607	1373	1736
85°	1698	1463	2078



TEST NUMBER: P291202

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	4.3
10°-20°	367.3	12.4
20°-30°	549.7	18.6
30°-40°	622.3	21.0
40°-50°	530.0	17.9
50°-60°	358.9	12.1
60°-70°	214.3	7.2
70°-80°	133.9	4.5
80°-90°	56.6	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°	1045.2	35.3
0°-40°	1667.4	56.3
0°-60°	2556.3	86.3
0°-90°	2961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1353	1349	1342	1350	1348	129
15°	1306	1302	1298	1306	1300	369
25°	1201	1198	1190	1196	1194	553
35°	1017	1011	1000	990	979	634
45°	743	745	722	616	576	573
55°	472	446	390	348	348	422
65°	261	218	189	202	209	263
75°	139	124	104	136	143	150
85°	55	51	47	60	67	59
90°	0	0	0	0	0	



TEST NUMBER: P291202

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1351.2	1351.2	1351.2	1351.2	1351.2
2.5°	1356.0	1352.6	1345.0	1353.9	1352.6
5°	1352.6	1349.1	1342.3	1350.5	1348.4
7.5°	1345.7	1342.3	1336.1	1344.3	1340.9
10°	1336.8	1332.7	1326.5	1335.4	1332.0
12.5°	1323.0	1318.9	1313.4	1322.3	1317.5
15°	1306.5	1301.7	1298.3	1306.5	1300.4
17.5°	1286.6	1282.5	1277.7	1285.9	1279.1
20°	1262.6	1259.1	1253.0	1257.8	1254.3
22.5°	1235.1	1230.3	1224.1	1229.6	1224.8
25°	1201.4	1198.0	1190.5	1196.0	1193.9
27.5°	1163.0	1160.9	1152.0	1158.9	1155.4
30°	1121.8	1116.3	1109.4	1111.5	1112.1
32.5°	1074.4	1067.5	1062.0	1057.2	1052.4
35°	1017.3	1011.2	1000.2	989.9	978.9
37.5°	958.3	950.0	939.0	916.4	902.6
40°	889.6	885.5	867.6	836.0	796.2
42.5°	819.5	815.4	799.6	728.8	685.6
45°	743.3	745.3	722.0	615.5	576.3
47.5°	670.4	675.9	625.1	525.5	504.9
50°	597.6	603.8	531.0	454.1	441.7
52.5°	533.7	528.9	452.7	398.4	392.9
55°	471.9	445.8	389.5	347.6	347.6
57.5°	408.7	371.6	331.1	304.3	304.3
60°	355.1	309.1	281.0	263.1	268.6
62.5°	305.7	256.9	232.9	229.4	236.3
65°	261.0	217.8	188.9	202.0	208.8
67.5°	224.6	186.2	155.2	182.7	186.8
70°	191.0	162.1	131.2	168.3	169.0
72.5°	160.1	142.9	112.7	152.5	155.2
75°	138.8	124.3	103.7	136.0	142.9
77.5°	121.6	106.5	95.5	117.5	130.5
80°	103.7	87.2	88.6	98.9	112.0
82.5°	79.7	67.3	70.1	81.1	91.4
85°	55.0	50.8	47.4	59.8	67.3
87.5°	29.5	27.5	24.0	33.7	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)