

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: P291200

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291200
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2847.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

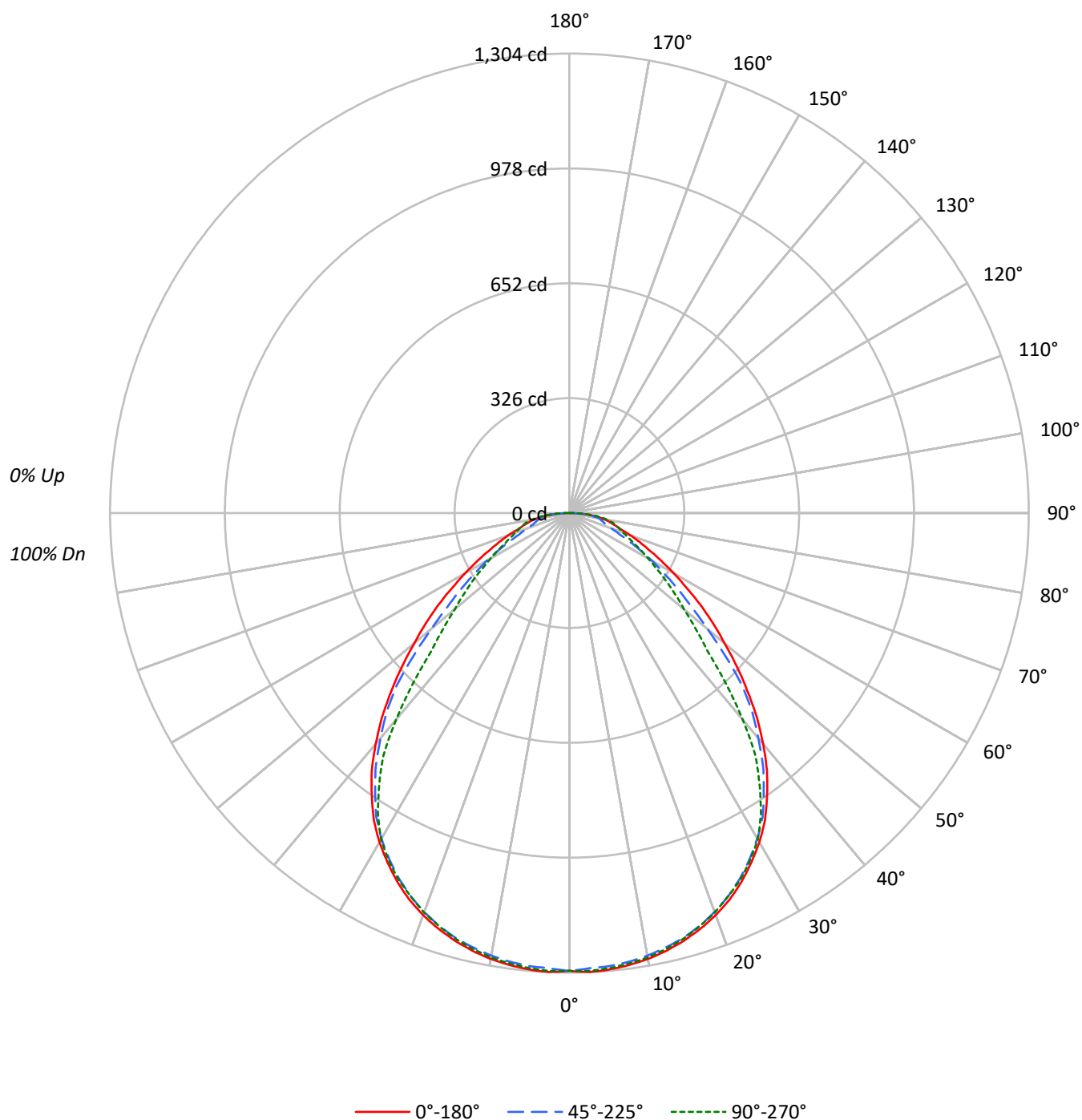
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291200

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P291200

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-3500K

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		51
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3496	3496	3496
5°	3513	3486	3502
10°	3512	3485	3500
15°	3500	3478	3483
20°	3477	3450	3454
25°	3430	3399	3408
30°	3352	3315	3323
35°	3213	3159	3092
40°	3005	2930	2689
45°	2719	2642	2109
50°	2406	2138	1778
55°	2129	1757	1568
60°	1838	1454	1390
65°	1598	1156	1279
70°	1445	993	1279
75°	1387	1037	1429
80°	1545	1320	1669
85°	1630	1408	1998



TEST NUMBER: P291200

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	4.3
10°-20°	353.2	12.4
20°-30°	528.5	18.6
30°-40°	598.3	21.0
40°-50°	509.6	17.9
50°-60°	345.1	12.1
60°-70°	206.0	7.2
70°-80°	128.7	4.5
80°-90°	54.4	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°	1004.9	35.3
0°-40°	1603.2	56.3
0°-60°	2457.9	86.3
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1300	1297	1291	1298	1296	124
15°	1256	1252	1248	1256	1250	354
25°	1155	1152	1145	1150	1148	531
35°	978	972	962	952	941	610
45°	715	717	694	592	554	551
55°	454	429	374	334	334	406
65°	251	209	182	194	201	253
75°	133	120	100	131	137	144
85°	53	49	46	58	65	57
90°	0	0	0	0	0	



TEST NUMBER: P291200

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1303.8	1300.5	1293.2	1301.8	1300.5
5°	1300.5	1297.2	1290.6	1298.5	1296.5
7.5°	1293.9	1290.6	1284.6	1292.6	1289.3
10°	1285.3	1281.3	1275.4	1284.0	1280.7
12.5°	1272.1	1268.1	1262.8	1271.4	1266.8
15°	1256.2	1251.6	1248.3	1256.2	1250.3
17.5°	1237.1	1233.1	1228.5	1236.4	1229.8
20°	1214.0	1210.7	1204.7	1209.3	1206.0
22.5°	1187.6	1182.9	1177.0	1182.3	1177.6
25°	1155.2	1151.9	1144.6	1149.9	1147.9
27.5°	1118.2	1116.2	1107.6	1114.2	1110.9
30°	1078.6	1073.3	1066.7	1068.7	1069.3
32.5°	1033.0	1026.4	1021.1	1016.5	1011.9
35°	978.2	972.2	961.7	951.8	941.2
37.5°	921.4	913.5	902.9	881.1	867.9
40°	855.3	851.4	834.2	803.8	765.5
42.5°	788.0	784.0	768.8	700.8	659.2
45°	714.6	716.6	694.2	591.8	554.1
47.5°	644.6	649.9	601.0	505.3	485.5
50°	574.6	580.6	510.6	436.6	424.7
52.5°	513.2	508.6	435.3	383.1	377.8
55°	453.8	428.7	374.5	334.2	334.2
57.5°	393.0	357.3	318.4	292.6	292.6
60°	341.5	297.2	270.1	253.0	258.2
62.5°	293.9	247.0	223.9	220.6	227.2
65°	251.0	209.4	181.6	194.2	200.8
67.5°	216.0	179.0	149.3	175.7	179.7
70°	183.6	155.9	126.2	161.8	162.5
72.5°	153.9	137.4	108.3	146.6	149.3
75°	133.4	119.5	99.7	130.8	137.4
77.5°	116.9	102.4	91.8	112.9	125.5
80°	99.7	83.9	85.2	95.1	107.7
82.5°	76.6	64.7	67.4	77.9	87.8
85°	52.8	48.9	45.6	57.5	64.7
87.5°	28.4	26.4	23.1	32.4	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)