

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: P291302

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291302
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2736.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

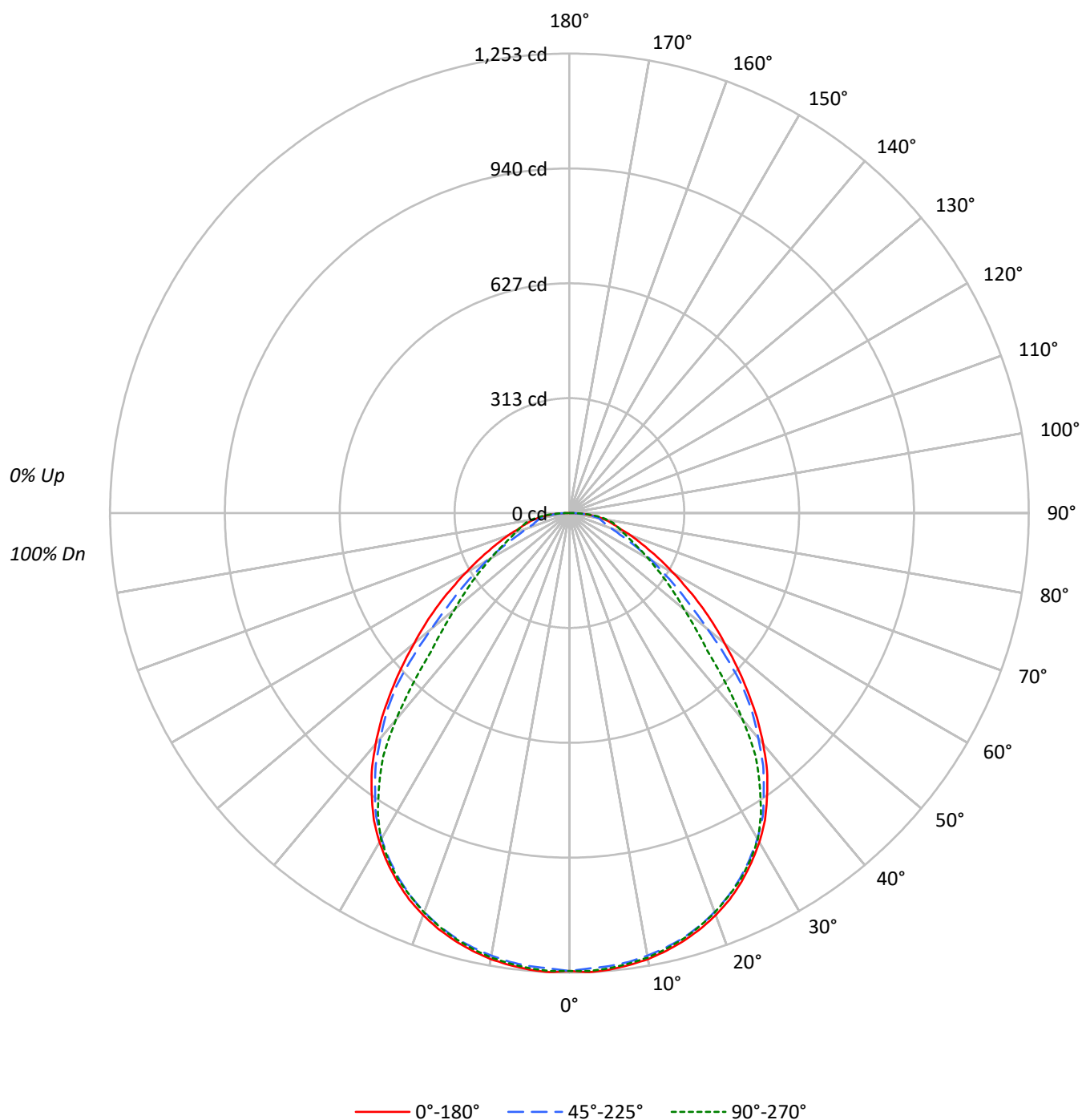
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291302

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291302

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L92765-W2A1-U-5500K

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		52
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°	3360	3360	3360
5°	3376	3350	3366
10°	3375	3349	3363
15°	3363	3342	3348
20°	3341	3316	3319
25°	3296	3266	3276
30°	3221	3185	3193
35°	3088	3036	2971
40°	2888	2816	2584
45°	2614	2539	2026
50°	2312	2054	1708
55°	2046	1688	1507
60°	1766	1397	1336
65°	1536	1112	1229
70°	1389	954	1228
75°	1333	996	1372
80°	1485	1269	1604
85°	1568	1352	1920



TEST NUMBER: P291302

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	4.3
10°-20°	339.4	12.4
20°-30°	507.9	18.6
30°-40°	575.0	21.0
40°-50°	489.7	17.9
50°-60°	331.6	12.1
60°-70°	198.0	7.2
70°-80°	123.7	4.5
80°-90°	52.3	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°	965.7	35.3
0°-40°	1540.7	56.3
0°-60°	2362.1	86.3
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1250	1247	1240	1248	1246	119
15°	1207	1203	1200	1207	1202	341
25°	1110	1107	1100	1105	1103	511
35°	940	934	924	915	904	586
45°	687	689	667	569	532	530
55°	436	412	360	321	321	390
65°	241	201	175	187	193	243
75°	128	115	96	126	132	138
85°	51	47	44	55	62	54
90°	0	0	0	0	0	



TEST NUMBER: P291302

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.5	1248.5	1248.5	1248.5	1248.5
2.5°	1253.0	1249.8	1242.8	1251.1	1249.8
5°	1249.8	1246.6	1240.3	1247.9	1246.0
7.5°	1243.4	1240.3	1234.6	1242.2	1239.0
10°	1235.2	1231.4	1225.7	1233.9	1230.8
12.5°	1222.5	1218.7	1213.6	1221.9	1217.4
15°	1207.3	1202.8	1199.6	1207.3	1201.6
17.5°	1188.9	1185.0	1180.6	1188.2	1181.9
20°	1166.6	1163.5	1157.8	1162.2	1159.0
22.5°	1141.3	1136.8	1131.1	1136.2	1131.7
25°	1110.2	1107.0	1100.0	1105.1	1103.2
27.5°	1074.6	1072.7	1064.4	1070.8	1067.6
30°	1036.5	1031.4	1025.1	1027.0	1027.6
32.5°	992.7	986.4	981.3	976.9	972.4
35°	940.0	934.3	924.2	914.7	904.5
37.5°	885.5	877.8	867.7	846.7	834.0
40°	822.0	818.2	801.7	772.5	735.7
42.5°	757.2	753.4	738.8	673.5	633.5
45°	686.8	688.7	667.1	568.7	532.5
47.5°	619.5	624.6	577.6	485.6	466.5
50°	552.2	557.9	490.6	419.6	408.1
52.5°	493.2	488.7	418.3	368.1	363.1
55°	436.1	411.9	359.9	321.2	321.2
57.5°	377.7	343.4	305.9	281.2	281.2
60°	328.2	285.6	259.6	243.1	248.2
62.5°	282.5	237.4	215.2	212.0	218.3
65°	241.2	201.2	174.6	186.6	193.0
67.5°	207.6	172.0	143.5	168.8	172.6
70°	176.5	149.8	121.2	155.5	156.1
72.5°	147.9	132.0	104.1	140.9	143.5
75°	128.2	114.9	95.8	125.7	132.0
77.5°	112.3	98.4	88.2	108.5	120.6
80°	95.8	80.6	81.9	91.4	103.5
82.5°	73.6	62.2	64.7	74.9	84.4
85°	50.8	47.0	43.8	55.2	62.2
87.5°	27.3	25.4	22.2	31.1	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)