

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: P291307

Luminaire Tested: **14GR-LD5-32-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291307
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-LD5-32-A125-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

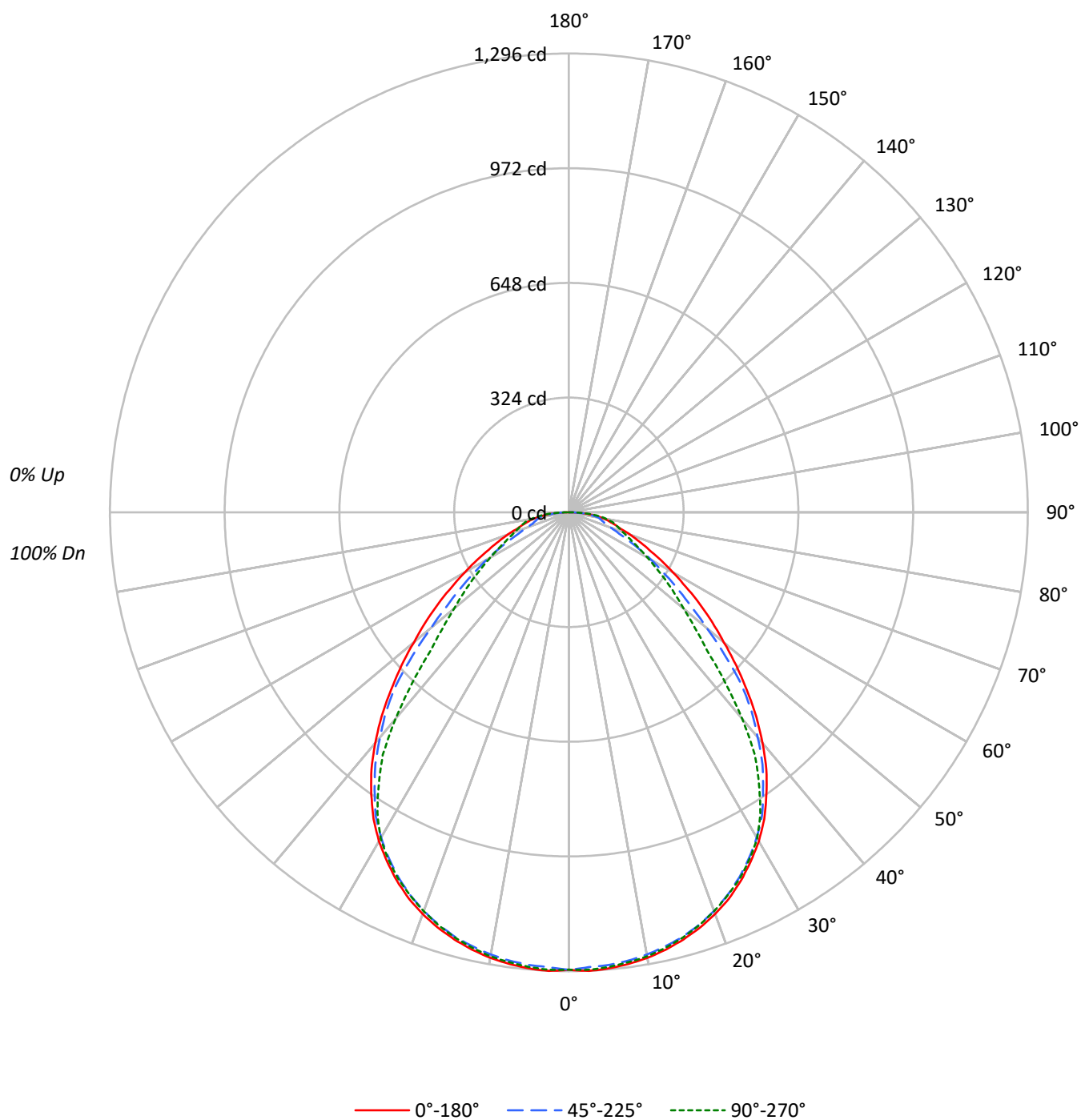
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3476	3476	3476
5°	3493	3467	3482
10°	3492	3465	3480
15°	3480	3458	3464
20°	3457	3431	3434
25°	3411	3380	3389
30°	3333	3296	3304
35°	3195	3142	3075
40°	2988	2914	2674
45°	2704	2627	2097
50°	2392	2125	1768
55°	2117	1747	1559
60°	1828	1446	1382
65°	1589	1150	1272
70°	1437	987	1271
75°	1380	1031	1420
80°	1537	1313	1660
85°	1621	1399	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	4.3
10°-20°	351.2	12.4
20°-30°	525.6	18.6
30°-40°	594.9	21.0
40°-50°	506.8	17.9
50°-60°	343.1	12.1
60°-70°	204.8	7.2
70°-80°	128.0	4.5
80°-90°	54.1	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°	999.3	35.3
0°-40°	1594.2	56.3
0°-60°	2444.1	86.3
0°-90°	2831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1293	1290	1283	1291	1289	123
15°	1249	1245	1241	1249	1243	352
25°	1149	1145	1138	1143	1142	528
35°	973	967	956	946	936	606
45°	711	713	690	588	551	548
55°	451	426	372	332	332	403
65°	250	208	181	193	200	252
75°	133	119	99	130	137	143
85°	52	49	45	57	64	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1296.5	1293.2	1286.0	1294.5	1293.2
5°	1293.2	1289.9	1283.3	1291.2	1289.2
7.5°	1286.6	1283.3	1277.4	1285.3	1282.0
10°	1278.1	1274.1	1268.2	1276.8	1273.5
12.5°	1264.9	1261.0	1255.8	1264.3	1259.7
15°	1249.2	1244.6	1241.3	1249.2	1243.3
17.5°	1230.1	1226.2	1221.6	1229.5	1222.9
20°	1207.2	1203.9	1198.0	1202.6	1199.3
22.5°	1180.9	1176.3	1170.4	1175.6	1171.0
25°	1148.7	1145.4	1138.2	1143.4	1141.5
27.5°	1111.9	1109.9	1101.4	1108.0	1104.7
30°	1072.5	1067.3	1060.7	1062.7	1063.3
32.5°	1027.2	1020.6	1015.4	1010.8	1006.2
35°	972.7	966.8	956.3	946.4	935.9
37.5°	916.2	908.3	897.8	876.1	863.0
40°	850.5	846.6	829.5	799.3	761.2
42.5°	783.5	779.6	764.5	696.8	655.5
45°	710.6	712.6	690.3	588.5	551.0
47.5°	641.0	646.3	597.7	502.4	482.7
50°	571.4	577.3	507.7	434.1	422.3
52.5°	510.3	505.7	432.8	380.9	375.7
55°	451.2	426.2	372.4	332.3	332.3
57.5°	390.8	355.3	316.6	291.0	291.0
60°	339.6	295.5	268.6	251.5	256.8
62.5°	292.3	245.6	222.6	219.4	225.9
65°	249.6	208.2	180.6	193.1	199.7
67.5°	214.8	178.0	148.4	174.7	178.6
70°	182.6	155.0	125.4	160.9	161.6
72.5°	153.0	136.6	107.7	145.8	148.4
75°	132.7	118.9	99.2	130.0	136.6
77.5°	116.2	101.8	91.3	112.3	124.8
80°	99.2	83.4	84.7	94.6	107.1
82.5°	76.2	64.4	67.0	77.5	87.4
85°	52.5	48.6	45.3	57.1	64.4
87.5°	28.2	26.3	23.0	32.2	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)