

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: P225854

Luminaire Tested: **14GR-LD5-32-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-32-A125-UNV-L930-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2688.4 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

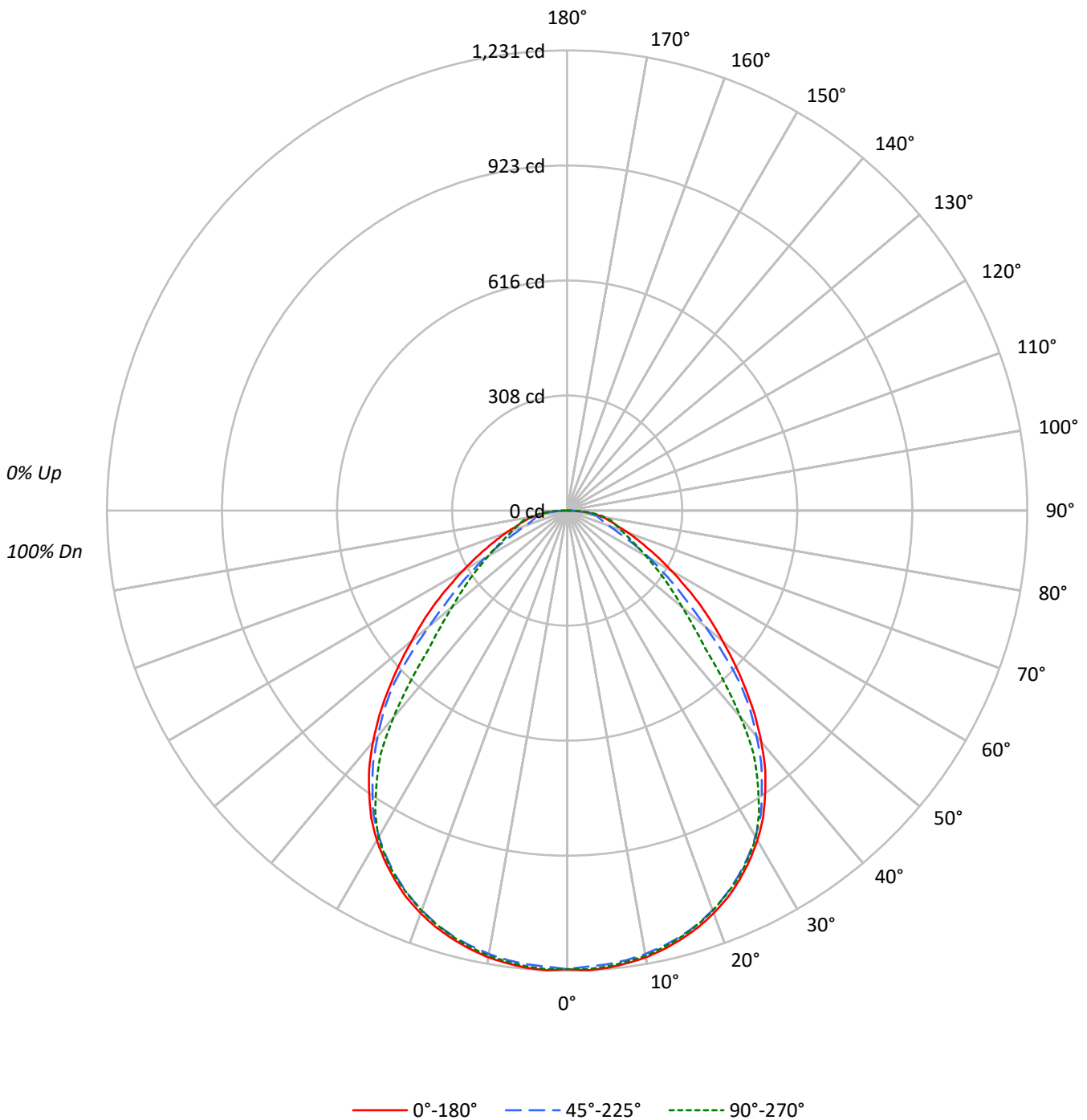
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225854

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225854

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L930-CD1-U

**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°	4134	4134	4134
5°	4154	4122	4141
10°	4153	4121	4138
15°	4138	4112	4119
20°	4110	4079	4084
25°	4056	4018	4030
30°	3963	3919	3929
35°	3800	3735	3656
40°	3553	3465	3179
45°	3216	3124	2493
50°	2844	2527	2103
55°	2517	2078	1854
60°	2173	1719	1644
65°	1890	1367	1512
70°	1708	1173	1512
75°	1640	1226	1689
80°	1828	1560	1973
85°	1929	1662	2362



TEST NUMBER: P225854

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.4	4.3
10°-20°	333.5	12.4
20°-30°	499.1	18.6
30°-40°	565.0	21.0
40°-50°	481.2	17.9
50°-60°	325.8	12.1
60°-70°	194.5	7.2
70°-80°	121.5	4.5
80°-90°	51.4	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°	948.9	35.3
0°-40°	1513.9	56.3
0°-60°	2320.9	86.3
0°-90°	2688.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2688.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1228	1225	1219	1226	1224	117
15°	1186	1182	1179	1186	1181	335
25°	1091	1088	1081	1086	1084	502
35°	924	918	908	899	889	576
45°	675	677	656	559	523	520
55°	428	405	354	316	316	383
65°	237	198	172	183	190	239
75°	126	113	94	124	130	136
85°	50	46	43	54	61	53
90°	0	0	0	0	0	



TEST NUMBER: P225854

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1226.8	1226.8	1226.8	1226.8	1226.8
2.5°	1231.1	1228.1	1221.2	1229.3	1228.1
5°	1228.1	1224.9	1218.7	1226.2	1224.3
7.5°	1221.8	1218.7	1213.0	1220.5	1217.4
10°	1213.7	1210.0	1204.3	1212.5	1209.3
12.5°	1201.2	1197.4	1192.5	1200.6	1196.2
15°	1186.2	1181.9	1178.8	1186.2	1180.7
17.5°	1168.1	1164.4	1160.1	1167.6	1161.3
20°	1146.3	1143.2	1137.6	1142.0	1138.8
22.5°	1121.4	1117.0	1111.4	1116.4	1112.0
25°	1090.8	1087.7	1080.8	1085.8	1084.0
27.5°	1055.9	1054.0	1045.9	1052.2	1049.0
30°	1018.5	1013.5	1007.3	1009.1	1009.8
32.5°	975.4	969.2	964.2	959.8	955.5
35°	923.7	918.1	908.1	898.7	888.8
37.5°	870.0	862.5	852.6	832.0	819.5
40°	807.7	803.9	787.8	759.0	722.8
42.5°	744.1	740.3	726.0	661.8	622.4
45°	674.8	676.7	655.5	558.8	523.2
47.5°	608.7	613.7	567.6	477.1	458.4
50°	542.6	548.2	482.1	412.3	401.1
52.5°	484.6	480.2	411.0	361.7	356.7
55°	428.4	404.8	353.7	315.6	315.6
57.5°	371.1	337.4	300.6	276.3	276.3
60°	322.5	280.6	255.1	238.9	243.9
62.5°	277.6	233.2	211.4	208.3	214.6
65°	237.0	197.7	171.5	183.3	189.6
67.5°	203.9	169.0	140.9	165.9	169.7
70°	173.4	147.2	119.1	152.8	153.5
72.5°	145.3	129.7	102.3	138.4	140.9
75°	126.0	112.9	94.2	123.5	129.7
77.5°	110.4	96.7	86.7	106.7	118.5
80°	94.2	79.2	80.4	89.8	101.7
82.5°	72.4	61.1	63.6	73.6	82.9
85°	49.9	46.1	43.0	54.3	61.1
87.5°	26.8	25.0	21.8	30.5	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)