

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: P225855

Luminaire Tested: **14GR-LD5-36-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225855  
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-LD5-36-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: 3030.3 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

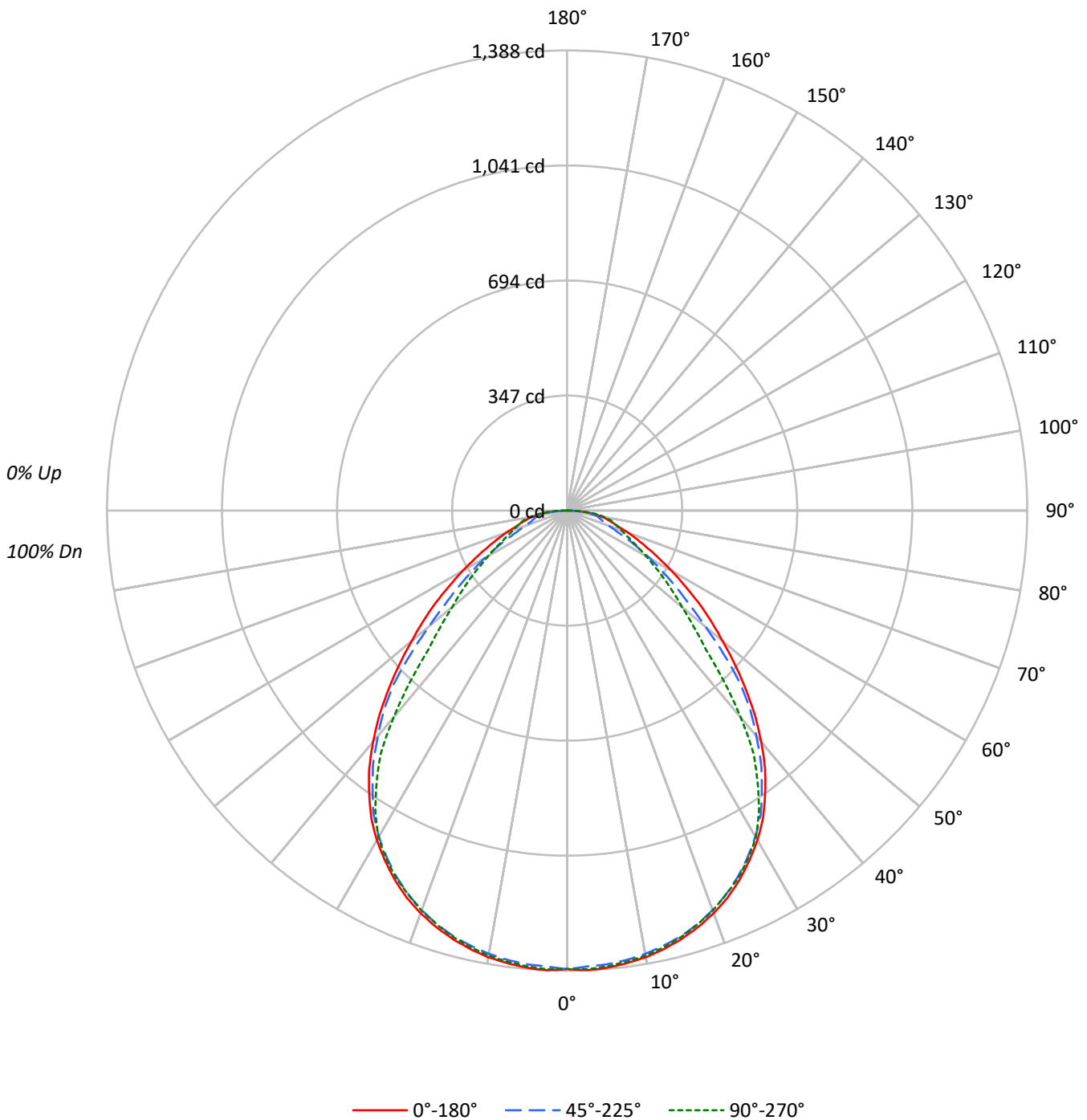
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4660	4660	4660
5°	4682	4646	4668
10°	4681	4645	4664
15°	4664	4635	4642
20°	4633	4598	4603
25°	4572	4530	4543
30°	4467	4418	4429
35°	4283	4211	4121
40°	4005	3906	3584
45°	3625	3521	2811
50°	3206	2849	2369
55°	2837	2342	2090
60°	2450	1938	1853
65°	2130	1541	1704
70°	1926	1323	1704
75°	1849	1383	1903
80°	2061	1760	2224
85°	2177	1875	2664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.2	4.3
10°-20°	375.9	12.4
20°-30°	562.6	18.6
30°-40°	636.8	21.0
40°-50°	542.4	17.9
50°-60°	367.3	12.1
60°-70°	219.3	7.2
70°-80°	137.0	4.5
80°-90°	57.9	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°	1069.6	35.3
0°-40°	1706.5	56.3
0°-60°	2616.2	86.3
0°-90°	3030.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1384	1381	1374	1382	1380	132
15°	1337	1332	1329	1337	1331	377
25°	1230	1226	1218	1224	1222	565
35°	1041	1035	1024	1013	1002	649
45°	761	763	739	630	590	587
55°	483	456	399	356	356	432
65°	267	223	193	207	214	269
75°	142	127	106	139	146	153
85°	56	52	48	61	69	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1387.8	1384.3	1376.5	1385.7	1384.3
5°	1384.3	1380.7	1373.7	1382.1	1380.0
7.5°	1377.2	1373.7	1367.3	1375.8	1372.3
10°	1368.1	1363.9	1357.5	1366.7	1363.1
12.5°	1354.0	1349.8	1344.2	1353.3	1348.4
15°	1337.1	1332.2	1328.7	1337.1	1330.8
17.5°	1316.7	1312.6	1307.6	1316.0	1309.0
20°	1292.1	1288.7	1282.3	1287.2	1283.7
22.5°	1264.0	1259.1	1252.8	1258.4	1253.5
25°	1229.6	1226.1	1218.4	1223.9	1221.8
27.5°	1190.2	1188.1	1178.9	1186.0	1182.5
30°	1148.1	1142.4	1135.4	1137.5	1138.2
32.5°	1099.5	1092.5	1086.9	1081.9	1077.0
35°	1041.2	1034.8	1023.6	1013.0	1001.8
37.5°	980.7	972.3	961.1	937.8	923.8
40°	910.4	906.2	887.9	855.6	814.8
42.5°	838.7	834.5	818.3	745.9	701.6
45°	760.7	762.8	738.9	629.9	589.8
47.5°	686.2	691.8	639.8	537.8	516.8
50°	611.6	617.9	543.4	464.7	452.0
52.5°	546.2	541.3	463.3	407.8	402.1
55°	483.0	456.3	398.6	355.7	355.7
57.5°	418.3	380.3	338.9	311.4	311.4
60°	363.5	316.4	287.5	269.3	274.9
62.5°	312.8	262.9	238.3	234.8	241.9
65°	267.2	222.9	193.3	206.7	213.7
67.5°	229.9	190.5	158.9	187.0	191.2
70°	195.5	165.9	134.3	172.2	173.0
72.5°	163.8	146.2	115.3	156.0	158.9
75°	142.0	127.2	106.2	139.2	146.2
77.5°	124.4	109.0	97.7	120.2	133.5
80°	106.2	89.3	90.7	101.3	114.6
82.5°	81.6	68.9	71.7	82.9	93.5
85°	56.3	52.0	48.5	61.2	68.9
87.5°	30.2	28.1	24.6	34.4	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)