

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: P219163

Luminaire Tested: **24GR-LD5-48-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-48-A125-UNV-L935-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4105.5 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

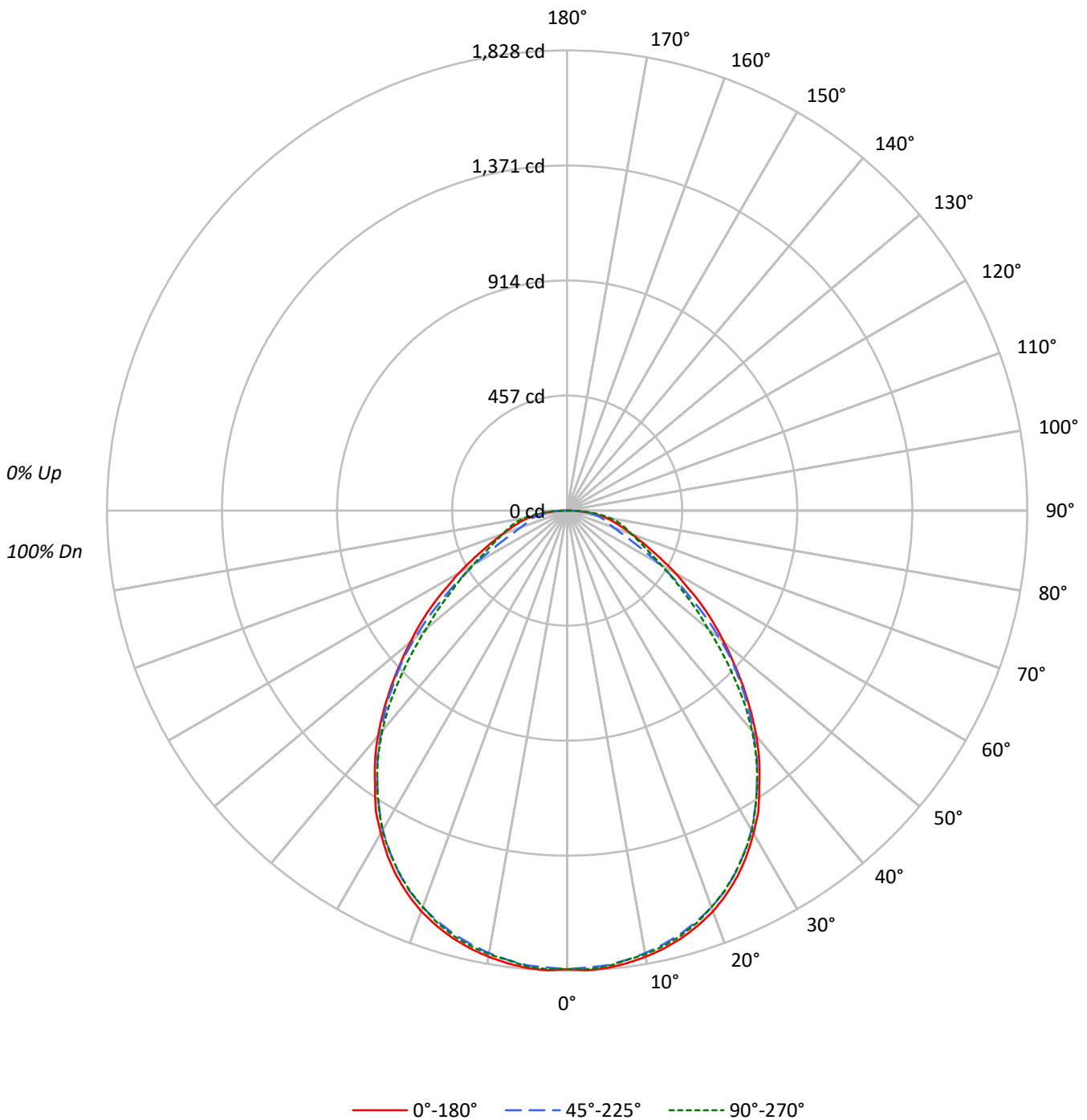
Input Watts (W): 37.486  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2790	2790	2790
5°	2804	2788	2795
10°	2799	2776	2784
15°	2788	2760	2772
20°	2761	2733	2732
25°	2708	2679	2676
30°	2618	2591	2597
35°	2487	2458	2462
40°	2338	2298	2284
45°	2143	2114	2031
50°	1937	1885	1743
55°	1739	1583	1502
60°	1523	1275	1321
65°	1329	1002	1216
70°	1216	875	1216
75°	1216	931	1340
80°	1320	1097	1527
85°	1448	1237	1638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.5	4.2
10°-20°	492.3	12.0
20°-30°	729.9	17.8
30°-40°	823.5	20.1
40°-50°	745.8	18.2
50°-60°	538.1	13.1
60°-70°	321.3	7.8
70°-80°	198.6	4.8
80°-90°	83.7	2.0
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°	1394.7	34.0
0°-40°	2218.2	54.0
0°-60°	3502.0	85.3
0°-90°	4105.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1824	1821	1813	1811	1818	173
15°	1758	1747	1740	1741	1748	496
25°	1602	1593	1585	1579	1584	736
35°	1330	1328	1315	1316	1317	832
45°	989	983	976	952	938	762
55°	651	631	593	564	563	581
65°	367	323	276	314	336	369
75°	206	178	157	196	226	219
85°	82	72	70	92	93	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1821.6	1821.6	1821.6	1821.6	1821.6
2.5°	1827.9	1822.8	1816.5	1820.3	1823.5
5°	1823.5	1821.0	1813.3	1811.4	1817.8
7.5°	1814.0	1807.6	1800.6	1803.8	1801.3
10°	1799.4	1793.7	1784.8	1785.4	1789.8
12.5°	1781.6	1774.6	1765.1	1767.7	1771.5
15°	1758.1	1747.3	1740.4	1741.1	1748.0
17.5°	1728.3	1720.1	1711.2	1713.1	1716.3
20°	1694.1	1689.6	1677.0	1673.1	1676.4
22.5°	1651.0	1642.7	1635.7	1633.9	1634.5
25°	1602.2	1593.2	1585.0	1579.3	1583.7
27.5°	1545.0	1537.4	1526.7	1524.7	1528.6
30°	1480.4	1474.7	1465.1	1462.6	1468.3
32.5°	1414.4	1404.9	1391.5	1391.5	1392.8
35°	1330.0	1328.1	1314.8	1315.5	1316.7
37.5°	1253.9	1245.1	1237.4	1229.8	1233.6
40°	1169.6	1159.4	1149.3	1144.2	1142.3
42.5°	1078.9	1071.3	1066.8	1048.4	1044.0
45°	989.4	983.1	976.1	952.0	937.5
47.5°	898.1	896.8	891.1	848.6	834.0
50°	813.1	811.2	790.9	745.9	731.3
52.5°	732.5	719.9	693.3	648.8	646.3
55°	651.4	631.1	593.0	563.9	562.6
57.5°	565.8	541.6	502.9	487.1	495.4
60°	497.2	460.4	416.1	417.9	431.3
62.5°	426.2	385.0	341.2	360.2	376.1
65°	366.6	322.8	276.5	314.0	335.5
67.5°	314.6	274.0	229.6	279.7	300.6
70°	271.5	238.5	195.3	248.0	271.5
72.5°	237.2	206.8	173.1	222.6	249.9
75°	205.5	178.2	157.3	196.0	226.4
77.5°	178.2	151.6	142.0	173.1	203.0
80°	149.7	125.5	124.4	151.0	173.1
82.5°	116.7	100.2	100.2	126.2	139.6
85°	82.4	72.3	70.4	92.0	93.2
87.5°	42.5	40.6	36.8	48.2	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)