

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: P219148

Luminaire Tested: **24GR-LD5-48-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219148
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-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893.5 lumens
Efficiency: N/A
Efficacy: 103.9 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

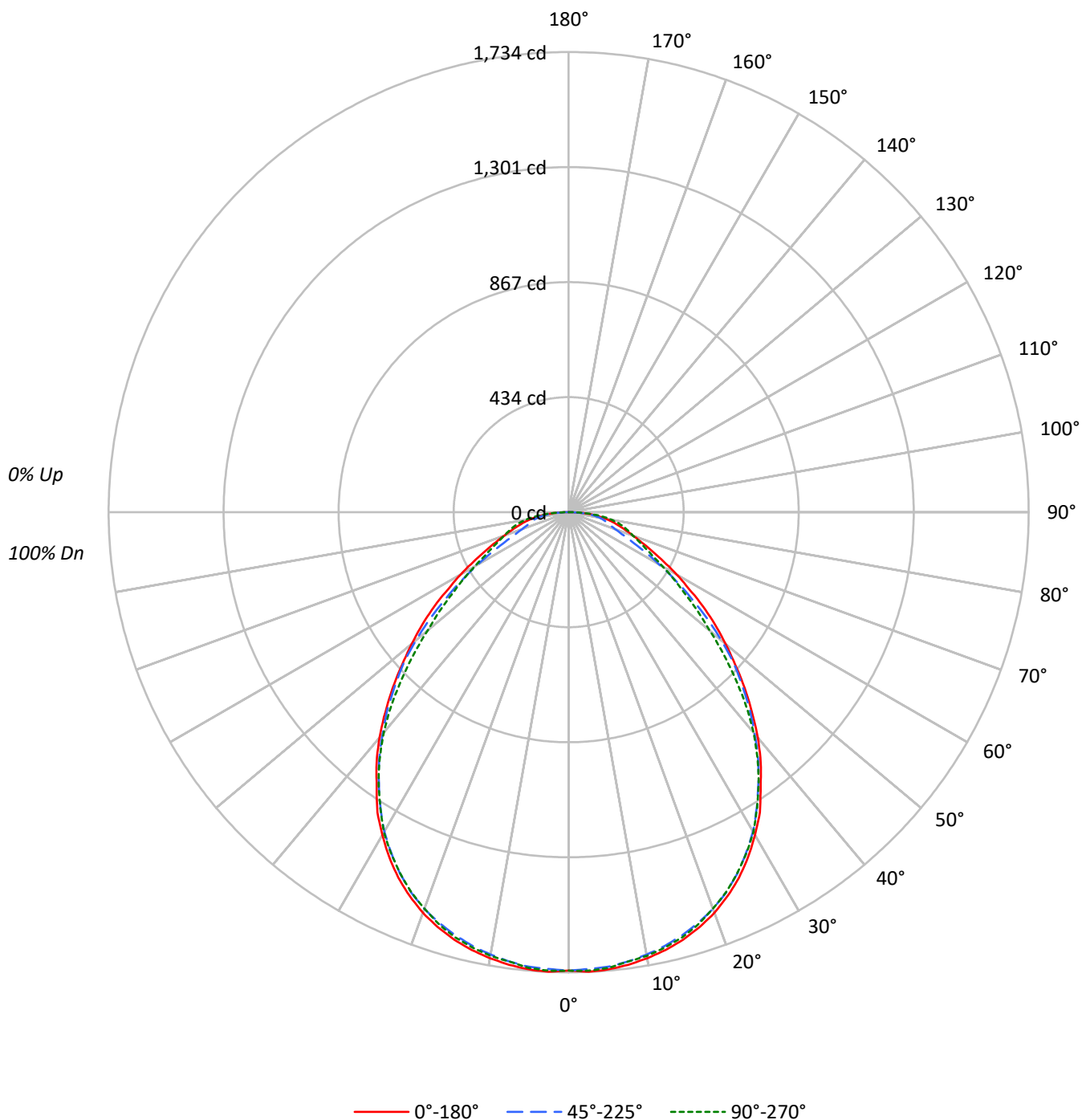
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2646	2646	2646
5°	2659	2644	2650
10°	2654	2632	2640
15°	2644	2617	2629
20°	2619	2592	2591
25°	2568	2540	2538
30°	2483	2457	2463
35°	2358	2331	2335
40°	2218	2179	2166
45°	2032	2005	1926
50°	1837	1787	1653
55°	1649	1502	1425
60°	1445	1209	1253
65°	1260	950	1153
70°	1153	829	1153
75°	1153	883	1271
80°	1252	1040	1448
85°	1374	1172	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	4.2
10°-20°	466.9	12.0
20°-30°	692.2	17.8
30°-40°	780.9	20.1
40°-50°	707.3	18.2
50°-60°	510.3	13.1
60°-70°	304.7	7.8
70°-80°	188.3	4.8
80°-90°	79.3	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°	1322.7	34.0
0°-40°	2103.6	54.0
0°-60°	3321.2	85.3
0°-90°	3893.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3893.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1729	1727	1720	1718	1724	164
15°	1667	1657	1650	1651	1658	470
25°	1519	1511	1503	1498	1502	698
35°	1261	1260	1247	1248	1249	789
45°	938	932	926	903	889	723
55°	618	598	562	535	534	551
65°	348	306	262	298	318	350
75°	195	169	149	186	215	208
85°	78	69	67	87	88	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.5	1727.5	1727.5	1727.5	1727.5
2.5°	1733.5	1728.7	1722.7	1726.3	1729.3
5°	1729.3	1726.9	1719.7	1717.9	1723.9
7.5°	1720.3	1714.3	1707.6	1710.7	1708.2
10°	1706.4	1701.0	1692.6	1693.2	1697.4
12.5°	1689.6	1683.0	1673.9	1676.4	1680.0
15°	1667.4	1657.1	1650.5	1651.2	1657.7
17.5°	1639.1	1631.2	1622.9	1624.7	1627.6
20°	1606.6	1602.4	1590.4	1586.8	1589.7
22.5°	1565.7	1557.9	1551.3	1549.5	1550.0
25°	1519.4	1510.9	1503.1	1497.7	1501.9
27.5°	1465.3	1458.0	1447.8	1446.0	1449.6
30°	1403.9	1398.5	1389.5	1387.0	1392.4
32.5°	1341.4	1332.3	1319.7	1319.7	1320.9
35°	1261.3	1259.5	1246.9	1247.5	1248.7
37.5°	1189.2	1180.7	1173.5	1166.3	1169.9
40°	1109.1	1099.5	1089.9	1085.1	1083.3
42.5°	1023.1	1015.9	1011.7	994.2	990.1
45°	938.3	932.3	925.7	902.8	889.0
47.5°	851.7	850.5	845.1	804.8	791.0
50°	771.1	769.3	750.1	707.3	693.6
52.5°	694.7	682.7	657.5	615.3	612.9
55°	617.7	598.5	562.4	534.7	533.5
57.5°	536.5	513.6	477.0	462.0	469.8
60°	471.6	436.6	394.6	396.4	409.0
62.5°	404.2	365.1	323.6	341.6	356.7
65°	347.7	306.2	262.2	297.7	318.2
67.5°	298.3	259.9	217.7	265.3	285.1
70°	257.5	226.2	185.2	235.2	257.5
72.5°	224.9	196.1	164.2	211.2	237.0
75°	194.9	169.0	149.2	185.9	214.8
77.5°	169.0	143.7	134.7	164.2	192.5
80°	141.9	119.1	117.9	143.2	164.2
82.5°	110.7	95.0	95.0	119.7	132.3
85°	78.2	68.6	66.7	87.2	88.4
87.5°	40.3	38.5	34.8	45.7	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)