

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: P475765

Luminaire Tested: **24GR-LD5-48-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475765
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704.9 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

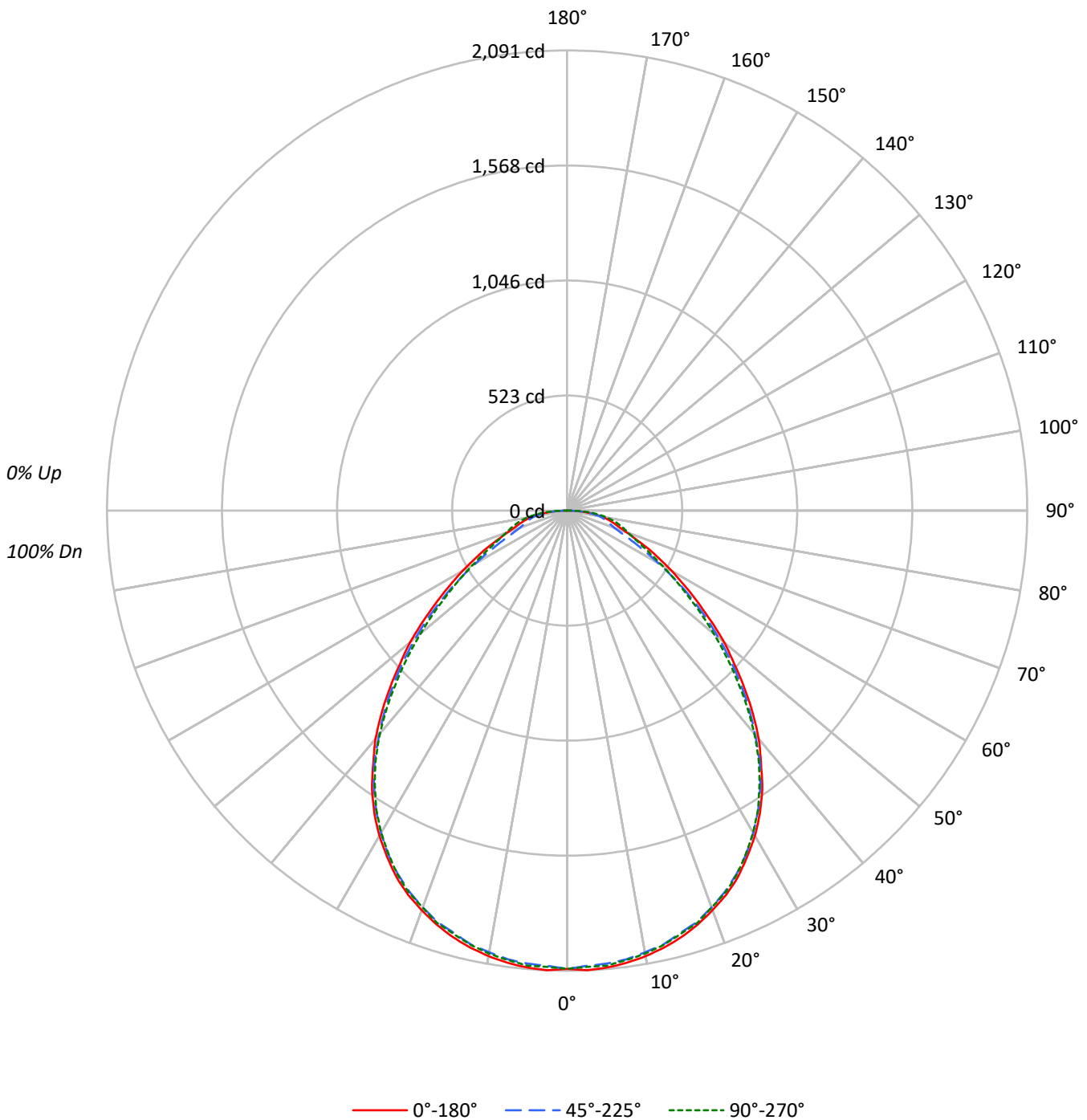
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475765

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475765

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L830-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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2802	2802	2802
5°	2815	2791	2803
10°	2809	2785	2792
15°	2795	2768	2774
20°	2766	2747	2748
25°	2727	2705	2709
30°	2651	2627	2626
35°	2540	2515	2502
40°	2380	2333	2323
45°	2166	2123	2082
50°	1950	1881	1820
55°	1692	1601	1553
60°	1478	1290	1335
65°	1279	1025	1187
70°	1128	899	1159
75°	1132	977	1268
80°	1241	1161	1435
85°	1308	1264	1646



TEST NUMBER: P475765

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	4.2
10°-20°	562.4	12.0
20°-30°	838.5	17.8
30°-40°	953.1	20.3
40°-50°	859.0	18.3
50°-60°	618.7	13.2
60°-70°	359.9	7.6
70°-80°	220.2	4.7
80°-90°	96.4	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°	1597.6	34.0
0°-40°	2550.8	54.2
0°-60°	4028.5	85.6
0°-90°	4704.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4704.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2084	2070	2066	2070	2075	198
15°	2007	1995	1987	1990	1992	566
25°	1837	1826	1822	1819	1825	844
35°	1546	1536	1531	1522	1523	962
45°	1138	1126	1116	1098	1094	878
55°	721	704	682	675	662	651
65°	402	361	322	347	373	402
75°	218	197	188	214	244	232
85°	85	84	82	111	107	90
90°	0	0	0	0	0	



TEST NUMBER: P475765

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.4	2082.4	2082.4	2082.4	2082.4
2.5°	2090.8	2079.6	2070.3	2070.8	2075.4
5°	2084.3	2069.9	2066.1	2070.3	2075.0
7.5°	2072.7	2059.2	2056.8	2054.5	2060.1
10°	2055.9	2046.6	2038.2	2040.5	2043.8
12.5°	2033.6	2025.6	2019.6	2014.9	2021.9
15°	2006.6	1995.4	1987.0	1990.3	1991.7
17.5°	1972.6	1961.9	1959.6	1957.7	1964.7
20°	1932.1	1925.6	1918.6	1920.5	1919.5
22.5°	1889.3	1879.5	1873.9	1871.1	1878.6
25°	1836.7	1825.5	1821.8	1819.0	1824.6
27.5°	1772.4	1766.4	1761.3	1757.5	1758.0
30°	1706.3	1700.3	1691.0	1688.2	1690.1
32.5°	1630.5	1623.5	1615.1	1606.7	1612.8
35°	1546.2	1535.5	1530.9	1522.0	1523.4
37.5°	1446.6	1442.0	1437.8	1426.1	1429.9
40°	1354.9	1342.4	1328.4	1321.4	1322.8
42.5°	1248.8	1235.8	1224.6	1214.8	1210.2
45°	1138.5	1125.5	1115.7	1098.5	1094.3
47.5°	1028.6	1016.5	1005.8	992.3	980.2
50°	931.8	909.5	898.8	884.8	869.5
52.5°	822.9	809.9	788.9	777.3	763.3
55°	721.4	704.2	682.4	675.4	661.9
57.5°	630.2	611.6	579.5	576.7	576.2
60°	549.2	524.1	479.4	482.7	496.2
62.5°	470.6	434.7	394.2	408.7	428.7
65°	401.7	361.2	322.1	347.2	372.8
67.5°	335.6	299.3	266.2	299.8	326.7
70°	286.7	256.5	228.5	264.4	294.6
72.5°	245.8	222.5	204.3	236.9	269.5
75°	217.8	197.4	188.0	214.1	243.9
77.5°	191.8	173.6	170.8	194.1	216.0
80°	160.1	147.5	149.9	173.6	185.2
82.5°	121.9	118.2	118.7	148.5	150.8
85°	84.7	83.8	81.9	111.2	106.6
87.5°	42.8	43.8	43.3	63.3	56.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)