

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: P293739

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4102.0 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

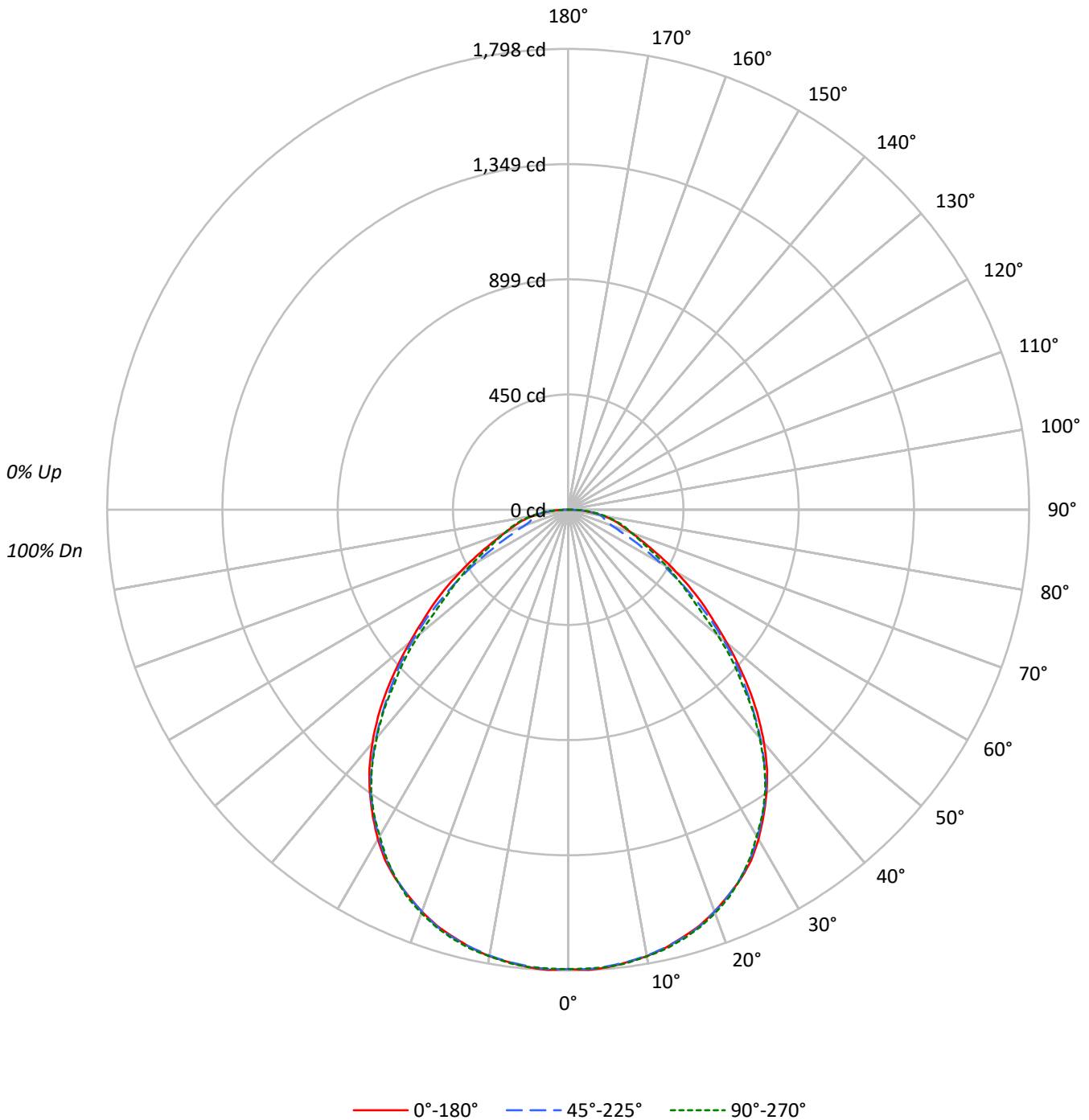
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293739

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293739

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-3500K

**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	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	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	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°	2412	2412	2412
5°	2420	2415	2419
10°	2417	2413	2417
15°	2405	2409	2416
20°	2389	2389	2398
25°	2362	2357	2359
30°	2307	2295	2284
35°	2216	2209	2201
40°	2087	2049	2040
45°	1909	1857	1823
50°	1688	1654	1590
55°	1501	1399	1345
60°	1307	1119	1200
65°	1129	868	1061
70°	1030	710	1027
75°	1038	765	1091
80°	1081	996	1151
85°	1127	1186	1275



TEST NUMBER: P293739

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.0	4.1
10°-20°	487.6	11.9
20°-30°	729.9	17.8
30°-40°	834.1	20.3
40°-50°	754.1	18.4
50°-60°	542.5	13.2
60°-70°	314.5	7.7
70°-80°	186.6	4.5
80°-90°	82.6	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°	1387.6	33.8
0°-40°	2221.7	54.2
0°-60°	3518.3	85.8
0°-90°	4102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1792	1789	1788	1785	1791	170
15°	1726	1730	1730	1728	1734	487
25°	1591	1589	1588	1584	1589	731
35°	1349	1343	1345	1328	1340	841
45°	1003	986	976	967	958	771
55°	640	628	596	581	573	572
65°	354	315	273	305	333	358
75°	200	167	147	182	210	211
85°	73	79	77	88	83	78
90°	0	0	0	0	0	



TEST NUMBER: P293739

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1797.6	1791.2	1794.4	1792.4	1791.8
5°	1791.8	1789.2	1788.0	1785.4	1791.2
7.5°	1780.3	1778.4	1779.0	1779.6	1783.5
10°	1768.8	1765.6	1766.2	1767.5	1769.4
12.5°	1750.8	1748.9	1749.6	1750.8	1755.3
15°	1726.5	1729.7	1729.7	1727.8	1734.2
17.5°	1702.2	1701.6	1704.8	1699.0	1708.0
20°	1668.3	1668.9	1668.3	1668.9	1674.7
22.5°	1629.9	1633.1	1631.2	1631.2	1637.6
25°	1590.9	1588.9	1587.7	1584.5	1588.9
27.5°	1544.1	1540.3	1537.1	1530.7	1533.9
30°	1484.6	1485.3	1476.9	1471.2	1469.9
32.5°	1418.1	1418.1	1410.4	1405.9	1409.8
35°	1349.0	1342.6	1345.1	1328.5	1340.0
37.5°	1274.1	1263.9	1258.1	1252.3	1256.2
40°	1188.3	1174.9	1166.6	1155.1	1161.5
42.5°	1098.1	1081.5	1071.2	1062.9	1065.5
45°	1003.4	986.1	975.9	966.9	958.0
47.5°	903.6	892.7	887.6	876.1	865.8
50°	806.3	802.5	790.3	780.7	759.6
52.5°	717.4	714.2	695.0	679.0	652.1
55°	639.9	627.8	596.4	581.1	573.4
57.5°	561.2	541.4	503.6	501.7	506.8
60°	485.7	461.4	416.0	426.2	446.0
62.5°	417.2	380.8	337.2	361.6	385.2
65°	354.5	314.8	272.6	304.6	333.4
67.5°	302.7	263.0	219.5	262.4	295.6
70°	261.7	221.4	180.5	229.7	261.1
72.5°	227.8	191.3	157.4	204.1	236.8
75°	199.7	167.0	147.2	181.7	209.9
77.5°	171.5	145.3	140.8	161.9	179.2
80°	139.5	127.3	128.6	142.1	148.5
82.5°	104.3	104.9	108.1	119.0	116.5
85°	73.0	78.7	76.8	88.3	82.6
87.5°	40.3	44.2	41.6	50.6	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)