

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: P293742

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293742
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4324.0 lumens
Efficiency: N/A
Efficacy: 151.0 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

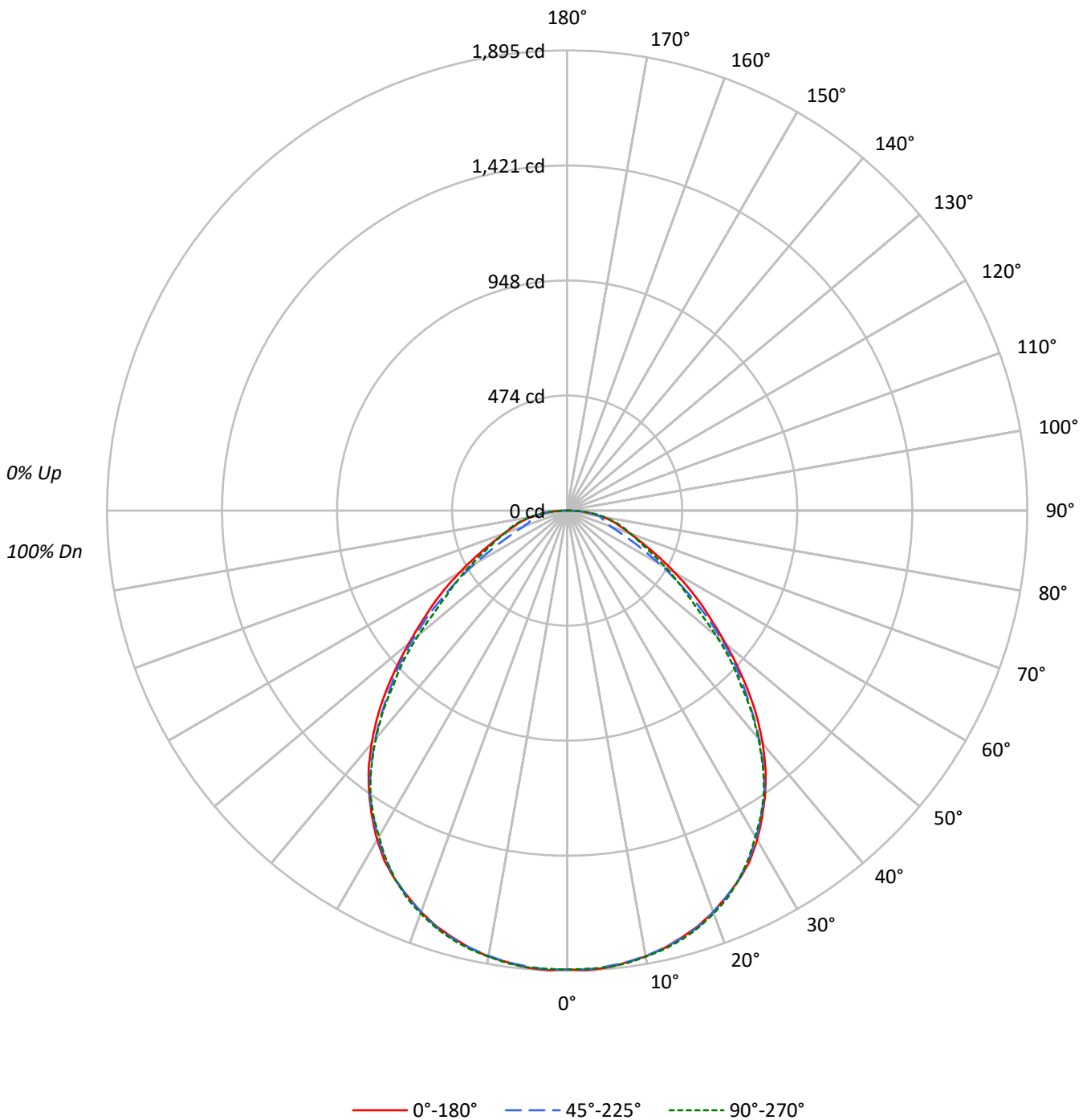
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293742

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293742

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5000K

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2542	2542	2542
5°	2551	2546	2550
10°	2547	2544	2548
15°	2535	2540	2546
20°	2518	2518	2528
25°	2490	2485	2487
30°	2431	2419	2407
35°	2336	2329	2320
40°	2200	2160	2150
45°	2013	1957	1921
50°	1779	1744	1676
55°	1582	1475	1418
60°	1378	1180	1265
65°	1190	915	1119
70°	1085	748	1083
75°	1094	806	1150
80°	1140	1051	1213
85°	1187	1249	1343



TEST NUMBER: P293742

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	4.1
10°-20°	514.0	11.9
20°-30°	769.4	17.8
30°-40°	879.2	20.3
40°-50°	794.9	18.4
50°-60°	571.9	13.2
60°-70°	331.5	7.7
70°-80°	196.7	4.5
80°-90°	87.1	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°	1462.7	33.8
0°-40°	2341.9	54.2
0°-60°	3708.7	85.8
0°-90°	4324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1889	1886	1885	1882	1888	179
15°	1820	1823	1823	1821	1828	514
25°	1677	1675	1674	1670	1675	771
35°	1422	1415	1418	1400	1412	886
45°	1058	1040	1029	1019	1010	813
55°	675	662	629	612	604	603
65°	374	332	287	321	351	377
75°	210	176	155	192	221	222
85°	77	83	81	93	87	82
90°	0	0	0	0	0	



TEST NUMBER: P293742

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.4	1889.4	1889.4	1889.4	1889.4
2.5°	1894.8	1888.1	1891.5	1889.4	1888.8
5°	1888.8	1886.1	1884.7	1882.0	1888.1
7.5°	1876.6	1874.6	1875.3	1875.9	1880.0
10°	1864.5	1861.1	1861.8	1863.1	1865.2
12.5°	1845.6	1843.6	1844.2	1845.6	1850.3
15°	1820.0	1823.3	1823.3	1821.3	1828.1
17.5°	1794.3	1793.7	1797.0	1791.0	1800.4
20°	1758.6	1759.2	1758.6	1759.2	1765.3
22.5°	1718.1	1721.5	1719.4	1719.4	1726.2
25°	1677.0	1674.9	1673.6	1670.2	1674.9
27.5°	1627.7	1623.7	1620.3	1613.5	1616.9
30°	1565.0	1565.6	1556.9	1550.8	1549.5
32.5°	1494.8	1494.8	1486.7	1482.0	1486.1
35°	1422.0	1415.2	1417.9	1400.4	1412.5
37.5°	1343.0	1332.3	1326.2	1320.1	1324.2
40°	1252.7	1238.5	1229.7	1217.6	1224.3
42.5°	1157.5	1140.0	1129.2	1120.4	1123.1
45°	1057.7	1039.5	1028.7	1019.3	1009.8
47.5°	952.5	941.0	935.6	923.5	912.7
50°	849.9	845.9	833.1	823.0	800.7
52.5°	756.2	752.8	732.6	715.7	687.4
55°	674.6	661.7	628.7	612.5	604.4
57.5°	591.6	570.7	530.9	528.9	534.3
60°	512.0	486.4	438.5	449.3	470.2
62.5°	439.8	401.4	355.5	381.1	406.1
65°	373.7	331.9	287.4	321.1	351.4
67.5°	319.1	277.2	231.4	276.6	311.6
70°	275.9	233.4	190.2	242.2	275.2
72.5°	240.1	201.7	165.9	215.2	249.6
75°	210.5	176.1	155.1	191.6	221.3
77.5°	180.8	153.1	148.4	170.7	188.9
80°	147.1	134.2	135.6	149.8	156.5
82.5°	110.0	110.6	114.0	125.5	122.8
85°	76.9	83.0	80.9	93.1	87.0
87.5°	42.5	46.5	43.8	53.3	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)