

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: P293744

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293744
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4379.0 lumens
Efficiency: N/A
Efficacy: 152.4 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

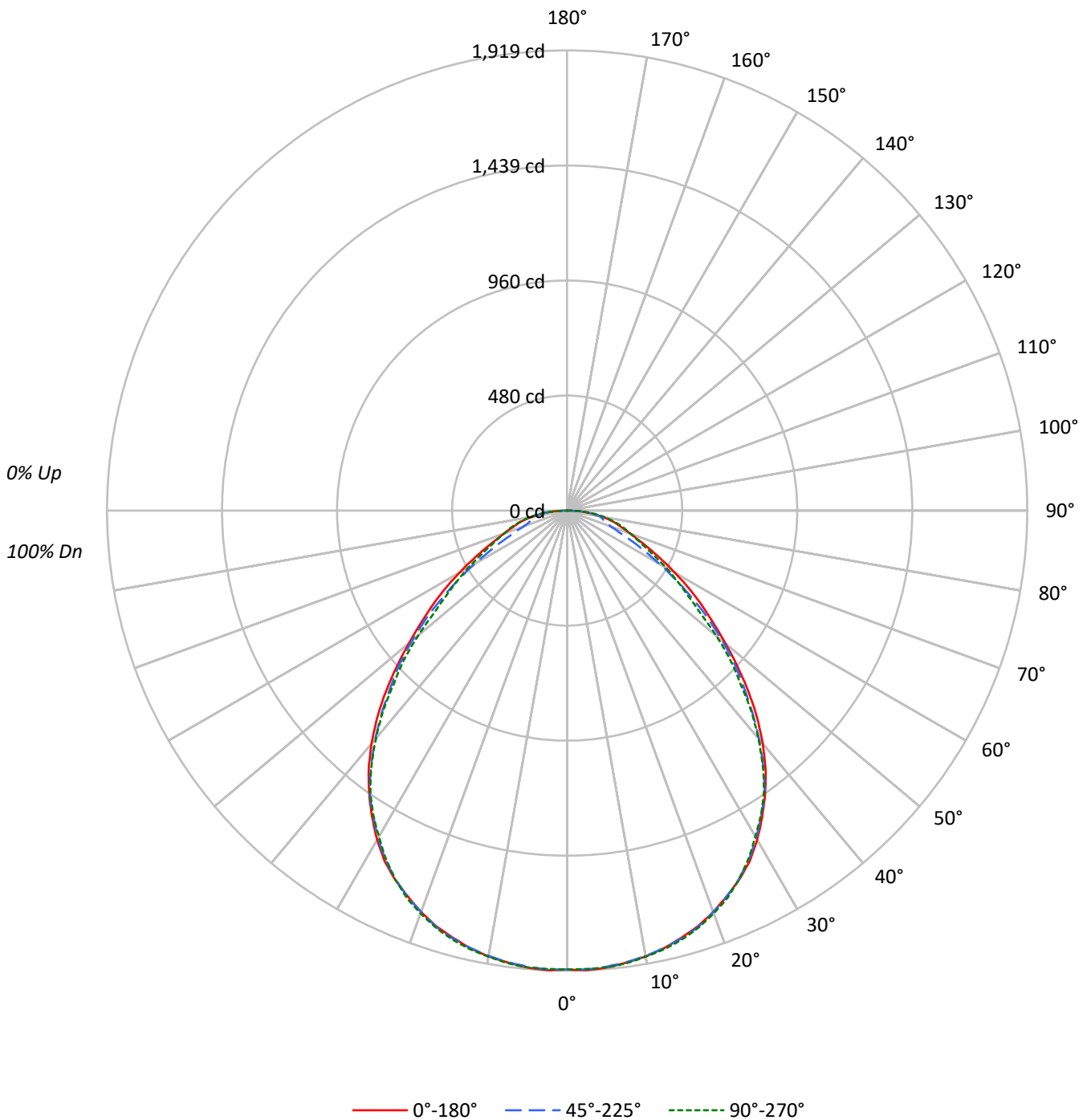
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293744

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P293744

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5700K

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°	2575	2575	2575
5°	2583	2578	2583
10°	2580	2576	2581
15°	2567	2572	2579
20°	2550	2550	2560
25°	2521	2516	2518
30°	2462	2450	2438
35°	2365	2359	2350
40°	2228	2187	2178
45°	2038	1982	1946
50°	1802	1766	1697
55°	1602	1494	1436
60°	1395	1195	1281
65°	1205	926	1133
70°	1099	758	1096
75°	1108	817	1165
80°	1154	1064	1228
85°	1203	1266	1360



TEST NUMBER: P293744

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	4.1
10°-20°	520.6	11.9
20°-30°	779.2	17.8
30°-40°	890.4	20.3
40°-50°	805.0	18.4
50°-60°	579.2	13.2
60°-70°	335.8	7.7
70°-80°	199.2	4.5
80°-90°	88.2	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°	1481.3	33.8
0°-40°	2371.7	54.2
0°-60°	3755.9	85.8
0°-90°	4379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1913	1910	1909	1906	1912	182
15°	1843	1846	1846	1844	1851	520
25°	1698	1696	1695	1692	1696	781
35°	1440	1433	1436	1418	1430	898
45°	1071	1053	1042	1032	1023	823
55°	683	670	637	620	612	611
65°	378	336	291	325	356	382
75°	213	178	157	194	224	225
85°	78	84	82	94	88	83
90°	0	0	0	0	0	



TEST NUMBER: P293744

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.5	1913.5	1913.5	1913.5	1913.5
2.5°	1918.9	1912.1	1915.5	1913.5	1912.8
5°	1912.8	1910.1	1908.7	1906.0	1912.1
7.5°	1900.5	1898.4	1899.1	1899.8	1903.9
10°	1888.2	1884.8	1885.5	1886.8	1888.9
12.5°	1869.1	1867.0	1867.7	1869.1	1873.8
15°	1843.1	1846.5	1846.5	1844.5	1851.3
17.5°	1817.1	1816.5	1819.9	1813.7	1823.3
20°	1780.9	1781.6	1780.9	1781.6	1787.8
22.5°	1740.0	1743.4	1741.3	1741.3	1748.2
25°	1698.3	1696.2	1694.9	1691.5	1696.2
27.5°	1648.4	1644.3	1640.9	1634.1	1637.5
30°	1584.9	1585.6	1576.7	1570.5	1569.2
32.5°	1513.8	1513.8	1505.6	1500.9	1505.0
35°	1440.1	1433.2	1436.0	1418.2	1430.5
37.5°	1360.1	1349.2	1343.1	1336.9	1341.0
40°	1268.6	1254.2	1245.4	1233.1	1239.9
42.5°	1172.3	1154.5	1143.6	1134.7	1137.4
45°	1071.2	1052.7	1041.8	1032.2	1022.7
47.5°	964.6	953.0	947.5	935.2	924.3
50°	860.8	856.7	843.7	833.4	810.9
52.5°	765.8	762.4	741.9	724.8	696.1
55°	683.1	670.2	636.7	620.3	612.1
57.5°	599.1	577.9	537.6	535.6	541.0
60°	518.5	492.5	444.0	455.0	476.1
62.5°	445.4	406.5	360.0	386.0	411.2
65°	378.5	336.1	291.0	325.2	355.9
67.5°	323.1	280.8	234.3	280.1	315.6
70°	279.4	236.4	192.6	245.2	278.7
72.5°	243.2	204.3	168.1	217.9	252.8
75°	213.1	178.3	157.1	194.0	224.1
77.5°	183.1	155.1	150.3	172.8	191.3
80°	148.9	135.9	137.3	151.7	158.5
82.5°	111.4	112.0	115.5	127.1	124.3
85°	77.9	84.0	82.0	94.3	88.1
87.5°	43.0	47.1	44.4	54.0	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)