

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: P293726

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293726  
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-LD5-34-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: 3646.0 lumens  
Efficiency: N/A  
Efficacy: 154.3 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

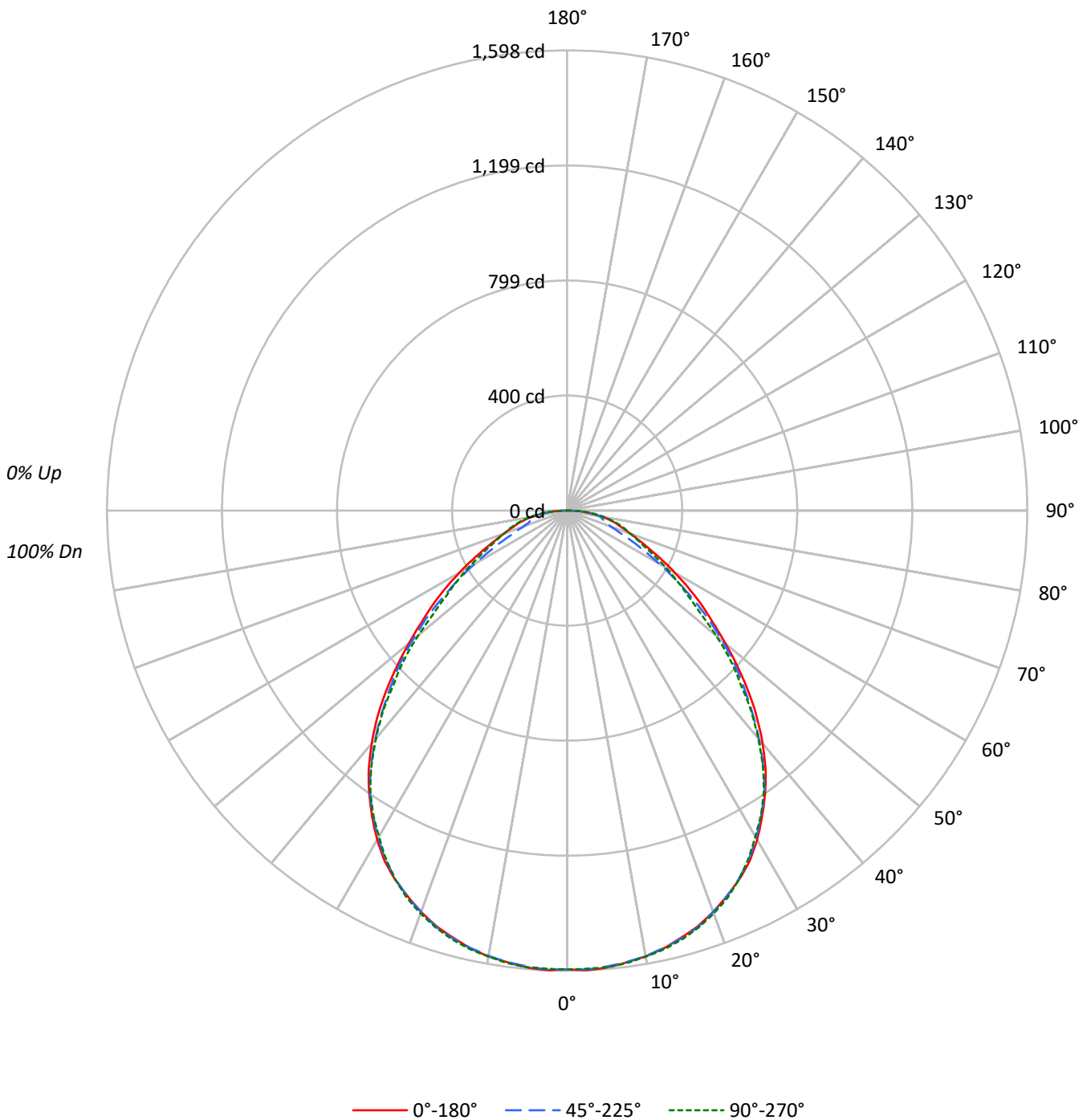
Input Watts (W): 23.622  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293726

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L82765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P293726

CATALOG NUMBER: 24GR-LD5-34-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°	2144	2144	2144
5°	2151	2146	2150
10°	2148	2145	2149
15°	2138	2142	2147
20°	2123	2123	2131
25°	2099	2095	2097
30°	2050	2040	2030
35°	1969	1964	1956
40°	1855	1821	1813
45°	1697	1650	1620
50°	1500	1470	1413
55°	1334	1244	1195
60°	1162	995	1067
65°	1003	771	943
70°	915	631	913
75°	923	680	970
80°	961	886	1023
85°	1000	1054	1133



TEST NUMBER: P293726

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L82765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	4.1
10°-20°	433.4	11.9
20°-30°	648.8	17.8
30°-40°	741.4	20.3
40°-50°	670.3	18.4
50°-60°	482.2	13.2
60°-70°	279.5	7.7
70°-80°	165.8	4.5
80°-90°	73.4	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°	1233.3	33.8
0°-40°	1974.7	54.2
0°-60°	3127.2	85.8
0°-90°	3646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3646.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1593	1590	1589	1587	1592	151
15°	1535	1537	1537	1536	1541	433
25°	1414	1412	1411	1408	1412	650
35°	1199	1193	1196	1181	1191	747
45°	892	876	867	859	852	685
55°	569	558	530	516	510	509
65°	315	280	242	271	296	318
75°	178	148	131	162	187	188
85°	65	70	68	78	73	69
90°	0	0	0	0	0	



TEST NUMBER: P293726

CATALOG NUMBER: 24GR-LD5-34-A125-UNV-L82765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1593.2	1593.2	1593.2	1593.2	1593.2
2.5°	1597.7	1592.0	1594.9	1593.2	1592.6
5°	1592.6	1590.3	1589.2	1586.9	1592.0
7.5°	1582.4	1580.7	1581.2	1581.8	1585.2
10°	1572.1	1569.3	1569.9	1571.0	1572.7
12.5°	1556.2	1554.5	1555.1	1556.2	1560.2
15°	1534.6	1537.4	1537.4	1535.7	1541.4
17.5°	1513.0	1512.4	1515.3	1510.1	1518.1
20°	1482.8	1483.4	1482.8	1483.4	1488.5
22.5°	1448.7	1451.5	1449.8	1449.8	1455.5
25°	1414.0	1412.3	1411.2	1408.3	1412.3
27.5°	1372.5	1369.1	1366.2	1360.5	1363.4
30°	1319.6	1320.2	1312.8	1307.6	1306.5
32.5°	1260.4	1260.4	1253.6	1249.6	1253.0
35°	1199.0	1193.3	1195.6	1180.8	1191.0
37.5°	1132.5	1123.4	1118.2	1113.1	1116.5
40°	1056.2	1044.3	1036.9	1026.7	1032.4
42.5°	976.0	961.3	952.2	944.8	947.0
45°	891.9	876.5	867.4	859.4	851.5
47.5°	803.1	793.5	788.9	778.7	769.6
50°	716.7	713.3	702.5	693.9	675.2
52.5°	637.6	634.8	617.7	603.5	579.6
55°	568.8	558.0	530.1	516.5	509.6
57.5°	498.8	481.2	447.6	445.9	450.5
60°	431.7	410.1	369.7	378.8	396.4
62.5°	370.8	338.4	299.8	321.4	342.4
65°	315.1	279.8	242.3	270.7	296.3
67.5°	269.0	233.8	195.1	233.2	262.8
70°	232.6	196.8	160.4	204.2	232.1
72.5°	202.5	170.1	139.9	181.4	210.5
75°	177.5	148.5	130.8	161.5	186.6
77.5°	152.4	129.1	125.1	143.9	159.3
80°	124.0	113.2	114.3	126.3	132.0
82.5°	92.7	93.3	96.1	105.8	103.5
85°	64.8	70.0	68.3	78.5	73.4
87.5°	35.8	39.2	37.0	44.9	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)