

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: P293399

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-F125-UNV-L92765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6551.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

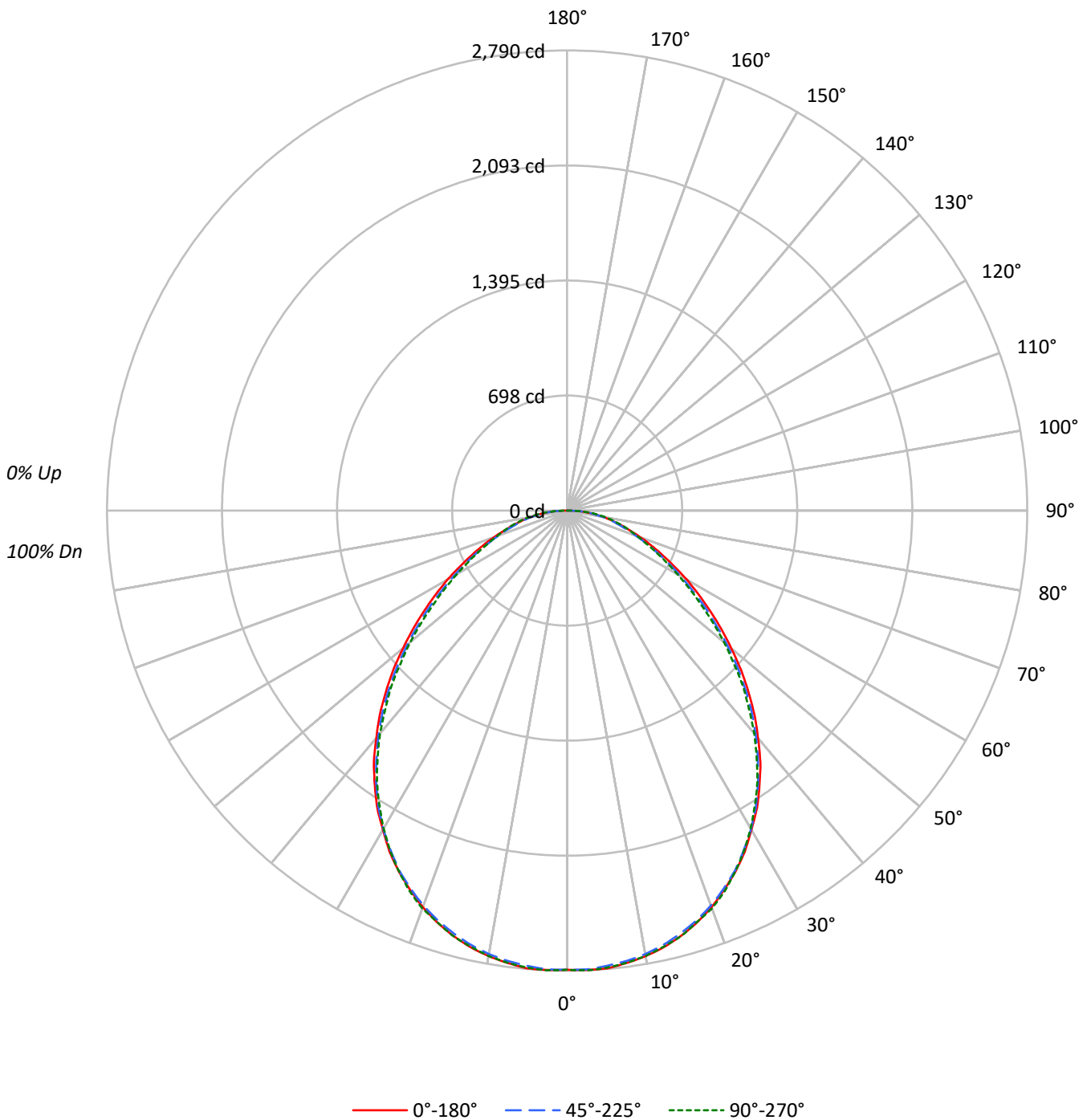
Input Watts (W): 53.568  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293399

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L92765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293399

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L92765-W2A1-U-4500K

**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3746	3746	3746
5°	3763	3742	3758
10°	3748	3730	3747
15°	3718	3699	3721
20°	3664	3649	3676
25°	3585	3575	3583
30°	3471	3465	3457
35°	3340	3315	3302
40°	3162	3126	3101
45°	2958	2903	2868
50°	2718	2645	2600
55°	2479	2388	2318
60°	2251	2130	2075
65°	2028	1914	1881
70°	1857	1736	1784
75°	1735	1656	1778
80°	1722	1690	1857
85°	1755	1771	2024



TEST NUMBER: P293399

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L92765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.5	4.0
10°-20°	749.1	11.4
20°-30°	1106.7	16.9
30°-40°	1258.2	19.2
40°-50°	1175.0	17.9
50°-60°	913.7	13.9
60°-70°	606.3	9.3
70°-80°	350.9	5.4
80°-90°	127.6	1.9
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°	2119.3	32.4
0°-40°	3377.5	51.6
0°-60°	5466.2	83.4
0°-90°	6551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2784	2784	2784	2784	2784	
5°	2786	2772	2771	2776	2782	264
15°	2670	2656	2655	2654	2672	752
25°	2414	2404	2408	2403	2414	1110
35°	2034	2023	2018	2004	2010	1270
45°	1554	1542	1526	1506	1507	1198
55°	1057	1041	1018	991	988	948
65°	637	618	601	590	591	637
75°	334	326	318	333	342	357
85°	114	112	115	130	131	124
90°	0	0	0	0	0	



TEST NUMBER: P293399

CATALOG NUMBER: 24GR-LD5-72-F125-UNV-L92765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2784.2	2784.2	2784.2	2784.2	2784.2
2.5°	2788.3	2780.1	2784.2	2781.1	2790.3
5°	2786.2	2771.9	2770.9	2776.0	2782.1
7.5°	2766.8	2751.4	2754.5	2754.5	2764.7
10°	2743.2	2727.9	2729.9	2730.9	2742.2
12.5°	2711.5	2696.1	2697.1	2696.1	2707.4
15°	2669.5	2656.2	2655.2	2654.1	2671.5
17.5°	2618.3	2599.9	2606.0	2607.0	2616.2
20°	2558.9	2544.6	2548.7	2547.6	2567.1
22.5°	2488.2	2478.0	2481.1	2479.0	2497.5
25°	2414.5	2404.3	2408.4	2403.3	2413.5
27.5°	2331.6	2324.4	2320.3	2317.2	2324.4
30°	2234.3	2230.2	2230.2	2216.9	2225.1
32.5°	2142.1	2128.8	2128.8	2123.7	2118.6
35°	2033.6	2023.4	2018.2	2003.9	2010.1
37.5°	1925.1	1901.5	1899.5	1888.2	1888.2
40°	1800.1	1786.8	1779.7	1767.4	1765.3
42.5°	1681.4	1668.0	1655.8	1635.3	1631.2
45°	1554.4	1542.1	1525.7	1506.3	1507.3
47.5°	1428.4	1411.0	1395.7	1372.1	1369.0
50°	1298.4	1286.1	1263.6	1243.1	1242.1
52.5°	1176.5	1157.1	1136.6	1112.0	1112.0
55°	1056.7	1041.4	1017.8	991.2	988.1
57.5°	942.1	927.7	901.1	881.6	876.5
60°	836.6	816.1	791.5	775.1	771.0
62.5°	731.1	712.7	694.3	677.9	676.8
65°	636.9	617.5	601.1	589.8	590.8
67.5°	551.9	535.5	517.1	514.0	515.1
70°	472.1	454.6	441.3	448.5	453.6
72.5°	396.3	387.1	377.8	388.1	395.3
75°	333.8	325.6	318.5	332.8	342.0
77.5°	276.5	270.3	269.3	281.6	289.8
80°	222.2	215.0	218.1	232.4	239.6
82.5°	169.0	163.8	164.9	182.3	187.4
85°	113.7	111.6	114.7	130.0	131.1
87.5°	60.4	60.4	62.5	71.7	68.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)