

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: P293899

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293899  
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-LD5-72-A125-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5676.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 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

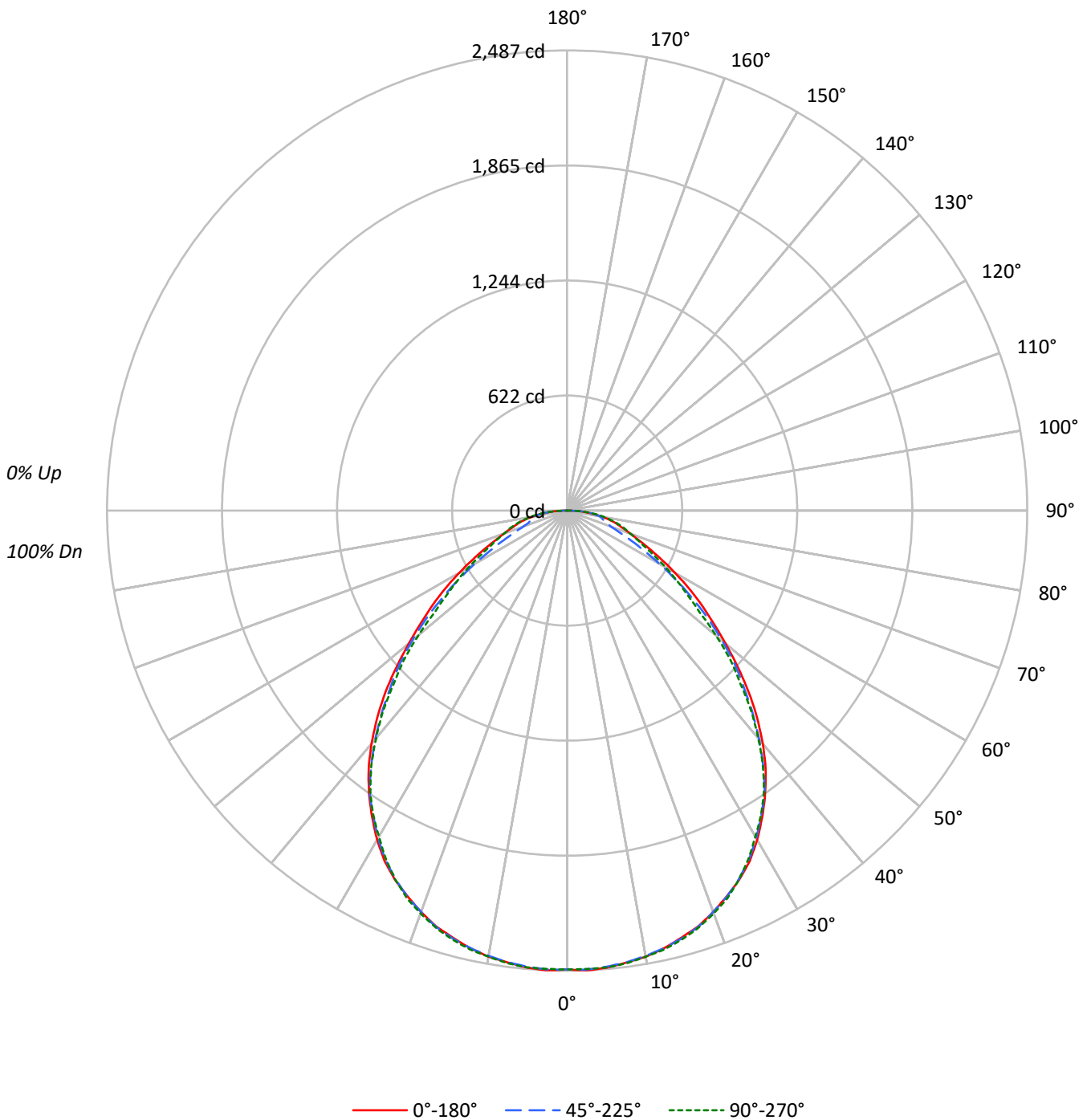
Input Watts (W): 52.452  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	3337	3337	3337
5°	3349	3341	3347
10°	3344	3339	3345
15°	3328	3334	3343
20°	3305	3305	3318
25°	3268	3261	3264
30°	3192	3175	3160
35°	3066	3057	3046
40°	2888	2835	2823
45°	2642	2569	2522
50°	2335	2289	2200
55°	2077	1936	1861
60°	1809	1549	1661
65°	1562	1201	1469
70°	1425	982	1421
75°	1436	1059	1510
80°	1495	1379	1592
85°	1558	1641	1763



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.3	4.1
10°-20°	674.8	11.9
20°-30°	1010.0	17.8
30°-40°	1154.1	20.3
40°-50°	1043.4	18.4
50°-60°	750.7	13.2
60°-70°	435.2	7.7
70°-80°	258.2	4.5
80°-90°	114.3	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°	1920.0	33.8
0°-40°	3074.2	54.2
0°-60°	4868.3	85.8
0°-90°	5676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2480	2480	2480	2480	2480	
5°	2479	2476	2474	2470	2478	236
15°	2389	2393	2393	2391	2400	674
25°	2201	2199	2197	2192	2199	1012
35°	1867	1858	1861	1838	1854	1164
45°	1388	1364	1350	1338	1326	1067
55°	886	869	825	804	793	792
65°	491	436	377	422	461	495
75°	276	231	204	252	290	292
85°	101	109	106	122	114	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2480.2	2480.2	2480.2	2480.2	2480.2
2.5°	2487.3	2478.4	2482.9	2480.2	2479.3
5°	2479.3	2475.8	2474.0	2470.5	2478.4
7.5°	2463.4	2460.7	2461.6	2462.5	2467.8
10°	2447.5	2443.0	2443.9	2445.7	2448.3
12.5°	2422.7	2420.0	2420.9	2422.7	2428.9
15°	2389.0	2393.4	2393.4	2390.8	2399.6
17.5°	2355.4	2354.5	2358.9	2350.9	2363.3
20°	2308.4	2309.3	2308.4	2309.3	2317.3
22.5°	2255.3	2259.7	2257.1	2257.1	2265.9
25°	2201.3	2198.6	2196.9	2192.4	2198.6
27.5°	2136.7	2131.3	2126.9	2118.1	2122.5
30°	2054.3	2055.2	2043.7	2035.7	2033.9
32.5°	1962.2	1962.2	1951.6	1945.4	1950.7
35°	1866.6	1857.7	1861.3	1838.2	1854.2
37.5°	1763.0	1748.8	1740.8	1732.9	1738.2
40°	1644.3	1625.7	1614.2	1598.3	1607.1
42.5°	1519.5	1496.5	1482.3	1470.8	1474.3
45°	1388.4	1364.5	1350.3	1338.0	1325.6
47.5°	1250.3	1235.2	1228.2	1212.2	1198.0
50°	1115.7	1110.4	1093.6	1080.3	1051.1
52.5°	992.6	988.2	961.6	939.5	902.3
55°	885.5	868.7	825.3	804.0	793.4
57.5°	776.6	749.1	696.9	694.2	701.3
60°	672.1	638.4	575.6	589.7	617.2
62.5°	577.3	526.9	466.6	500.3	533.1
65°	490.6	435.7	377.2	421.5	461.3
67.5°	418.8	363.9	303.7	363.0	409.1
70°	362.2	306.4	249.7	317.9	361.3
72.5°	315.2	264.8	217.8	282.5	327.6
75°	276.3	231.1	203.7	251.5	290.4
77.5°	237.3	201.0	194.8	224.0	247.9
80°	193.0	176.2	178.0	196.6	205.4
82.5°	144.3	145.2	149.6	164.7	161.2
85°	100.9	108.9	106.3	122.2	114.2
87.5°	55.8	61.1	57.6	70.0	62.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)