

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: P293647

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-A-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5732.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

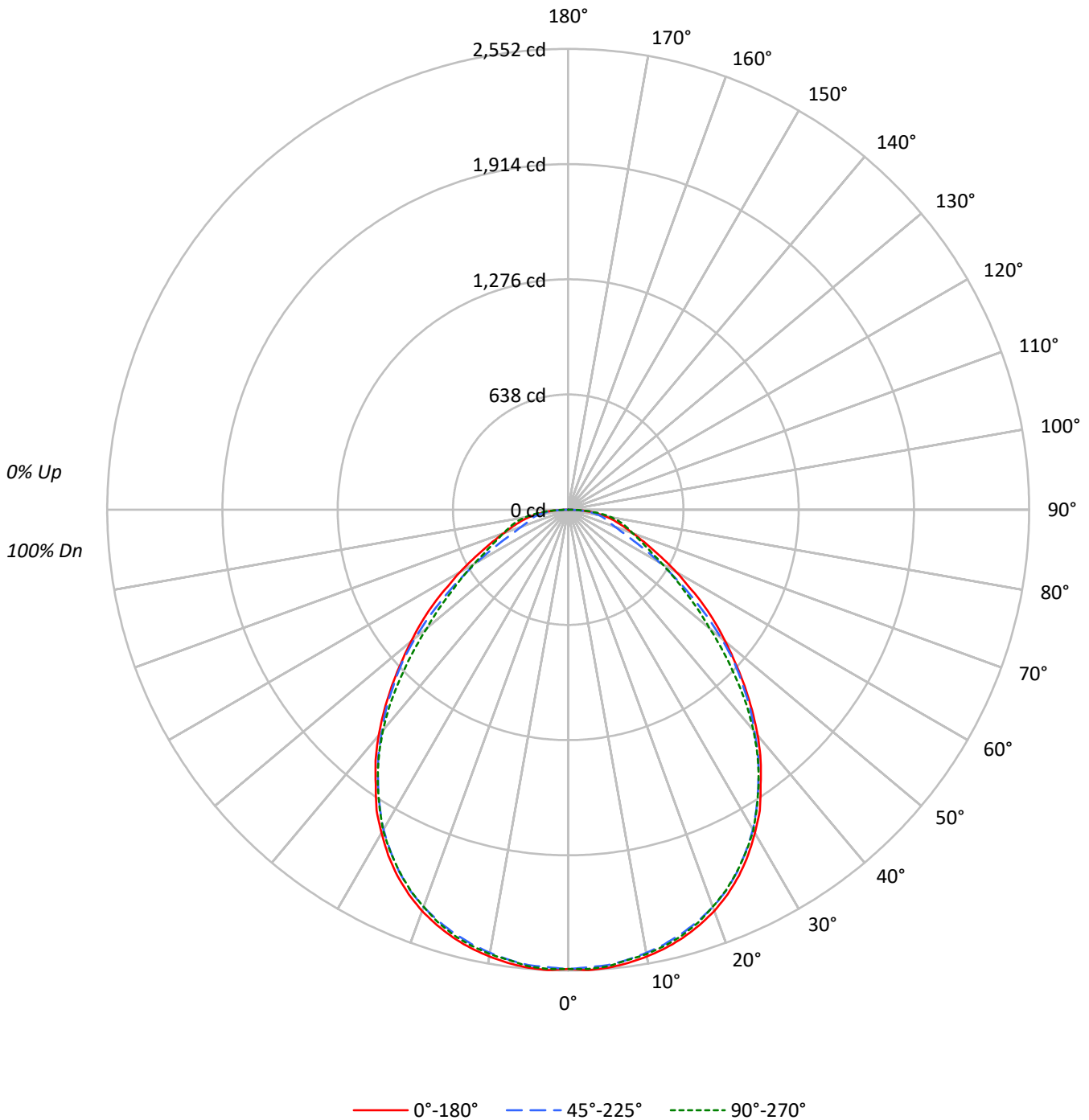
Input Watts (W): 52.452  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	3422	3422	3422
5°	3439	3419	3428
10°	3432	3405	3414
15°	3419	3385	3400
20°	3387	3352	3351
25°	3321	3285	3283
30°	3211	3178	3185
35°	3050	3015	3019
40°	2868	2818	2801
45°	2629	2593	2490
50°	2376	2311	2137
55°	2133	1942	1843
60°	1868	1563	1621
65°	1629	1229	1491
70°	1491	1073	1491
75°	1491	1142	1643
80°	1619	1345	1873
85°	1777	1518	2010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	4.2
10°-20°	687.3	12.0
20°-30°	1019.1	17.8
30°-40°	1149.7	20.1
40°-50°	1041.3	18.2
50°-60°	751.2	13.1
60°-70°	448.5	7.8
70°-80°	277.2	4.8
80°-90°	116.8	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°	1947.3	34.0
0°-40°	3096.9	54.0
0°-60°	4889.4	85.3
0°-90°	5732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2546	2542	2532	2529	2538	242
15°	2455	2440	2430	2431	2440	692
25°	2237	2224	2213	2205	2211	1028
35°	1857	1854	1836	1837	1838	1162
45°	1381	1373	1363	1329	1309	1065
55°	909	881	828	787	786	812
65°	512	451	386	438	468	515
75°	287	249	220	274	316	306
85°	115	101	98	128	130	120
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2543.2	2543.2	2543.2	2543.2	2543.2
2.5°	2552.1	2545.0	2536.1	2541.5	2545.9
5°	2545.9	2542.3	2531.7	2529.1	2537.9
7.5°	2532.6	2523.7	2514.0	2518.4	2514.9
10°	2512.2	2504.3	2491.9	2492.7	2498.9
12.5°	2487.4	2477.7	2464.4	2468.0	2473.3
15°	2454.7	2439.6	2429.9	2430.8	2440.5
17.5°	2413.1	2401.5	2389.1	2391.8	2396.2
20°	2365.2	2359.0	2341.3	2336.0	2340.4
22.5°	2305.0	2293.5	2283.8	2281.1	2282.0
25°	2236.8	2224.4	2212.9	2205.0	2211.2
27.5°	2157.1	2146.5	2131.5	2128.8	2134.1
30°	2066.8	2058.8	2045.6	2042.0	2050.0
32.5°	1974.7	1961.4	1942.8	1942.8	1944.6
35°	1856.9	1854.3	1835.7	1836.6	1838.3
37.5°	1750.7	1738.3	1727.7	1717.0	1722.3
40°	1632.9	1618.7	1604.6	1597.5	1594.8
42.5°	1506.3	1495.6	1489.4	1463.8	1457.6
45°	1381.4	1372.6	1362.8	1329.2	1308.8
47.5°	1253.9	1252.1	1244.2	1184.8	1164.5
50°	1135.2	1132.6	1104.2	1041.4	1021.0
52.5°	1022.8	1005.1	967.9	905.9	902.3
55°	909.4	881.1	828.0	787.2	785.5
57.5°	789.9	756.2	702.2	680.1	691.6
60°	694.2	642.9	580.9	583.6	602.2
62.5°	595.1	537.5	476.4	503.0	525.1
65°	511.8	450.7	386.1	438.3	468.4
67.5°	439.2	382.5	320.6	390.5	419.7
70°	379.0	333.0	272.7	346.2	379.0
72.5°	331.2	288.7	241.7	310.8	348.9
75°	286.9	248.8	219.6	273.6	316.1
77.5°	248.8	211.6	198.4	241.7	283.4
80°	209.0	175.3	173.6	210.8	241.7
82.5°	162.9	139.9	139.9	176.2	194.8
85°	115.1	100.9	98.3	128.4	130.2
87.5°	59.3	56.7	51.4	67.3	67.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)