

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: P293777

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293777  
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-L82765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7358.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

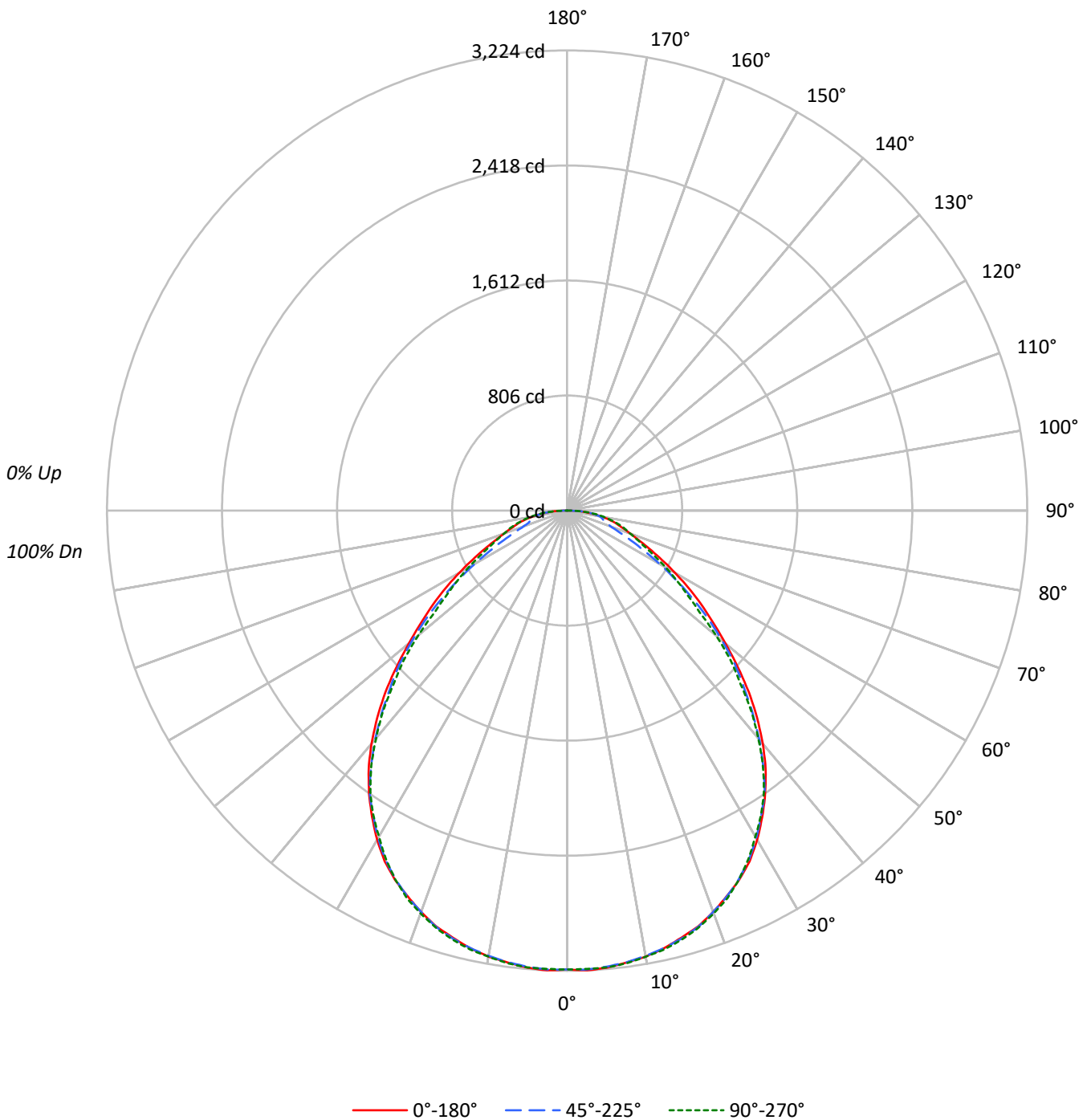
Input Watts (W): 53.568  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4326	4326	4326
5°	4341	4332	4339
10°	4335	4328	4336
15°	4314	4322	4333
20°	4285	4285	4301
25°	4236	4228	4231
30°	4137	4116	4096
35°	3974	3963	3948
40°	3744	3675	3659
45°	3425	3331	3270
50°	3027	2967	2852
55°	2693	2510	2413
60°	2344	2008	2153
65°	2025	1557	1904
70°	1847	1273	1842
75°	1862	1372	1957
80°	1939	1788	2063
85°	2021	2126	2286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.0	4.1
10°-20°	874.7	11.9
20°-30°	1309.3	17.8
30°-40°	1496.1	20.3
40°-50°	1352.6	18.4
50°-60°	973.2	13.2
60°-70°	564.2	7.7
70°-80°	334.7	4.5
80°-90°	148.2	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°	2489.0	33.8
0°-40°	3985.2	54.2
0°-60°	6311.0	85.8
0°-90°	7358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7358.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3215	3215	3215	3215	3215	
5°	3214	3210	3207	3203	3213	305
15°	3097	3103	3103	3099	3111	874
25°	2854	2850	2848	2842	2850	1312
35°	2420	2408	2413	2383	2404	1508
45°	1800	1769	1750	1734	1718	1383
55°	1148	1126	1070	1042	1028	1027
65°	636	565	489	546	598	642
75°	358	300	264	326	376	378
85°	131	141	138	158	148	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3215.2	3215.2	3215.2	3215.2	3215.2
2.5°	3224.4	3212.9	3218.6	3215.2	3214.0
5°	3214.0	3209.5	3207.2	3202.6	3212.9
7.5°	3193.4	3189.9	3191.1	3192.2	3199.1
10°	3172.7	3167.0	3168.1	3170.4	3173.9
12.5°	3140.6	3137.1	3138.3	3140.6	3148.6
15°	3097.0	3102.7	3102.7	3099.3	3110.7
17.5°	3053.3	3052.2	3057.9	3047.6	3063.7
20°	2992.5	2993.7	2992.5	2993.7	3004.0
22.5°	2923.6	2929.4	2925.9	2925.9	2937.4
25°	2853.6	2850.2	2847.9	2842.1	2850.2
27.5°	2769.8	2762.9	2757.2	2745.7	2751.4
30°	2663.1	2664.2	2649.3	2639.0	2636.7
32.5°	2543.7	2543.7	2529.9	2521.9	2528.8
35°	2419.7	2408.2	2412.8	2383.0	2403.6
37.5°	2285.4	2267.0	2256.7	2246.4	2253.3
40°	2131.6	2107.5	2092.6	2071.9	2083.4
42.5°	1969.7	1939.9	1921.5	1906.6	1911.2
45°	1799.9	1768.9	1750.5	1734.4	1718.4
47.5°	1620.8	1601.3	1592.1	1571.4	1553.1
50°	1446.3	1439.4	1417.6	1400.4	1362.5
52.5°	1286.8	1281.0	1246.6	1217.9	1169.7
55°	1147.9	1126.1	1069.8	1042.3	1028.5
57.5°	1006.7	971.1	903.4	899.9	909.1
60°	871.2	827.6	746.1	764.5	800.1
62.5°	748.4	683.0	604.9	648.5	691.0
65°	635.9	564.8	489.0	546.4	598.0
67.5°	542.9	471.8	393.7	470.6	530.3
70°	469.5	397.2	323.7	412.1	468.3
72.5°	408.6	343.2	282.4	366.2	424.7
75°	358.1	299.6	264.0	326.0	376.5
77.5°	307.6	260.6	252.5	290.4	321.4
80°	250.2	228.4	230.7	254.8	266.3
82.5°	187.1	188.3	194.0	213.5	208.9
85°	130.9	141.2	137.7	158.4	148.1
87.5°	72.3	79.2	74.6	90.7	81.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)