

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: P293914

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293914  
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-LD5-85-A125-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7795.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 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

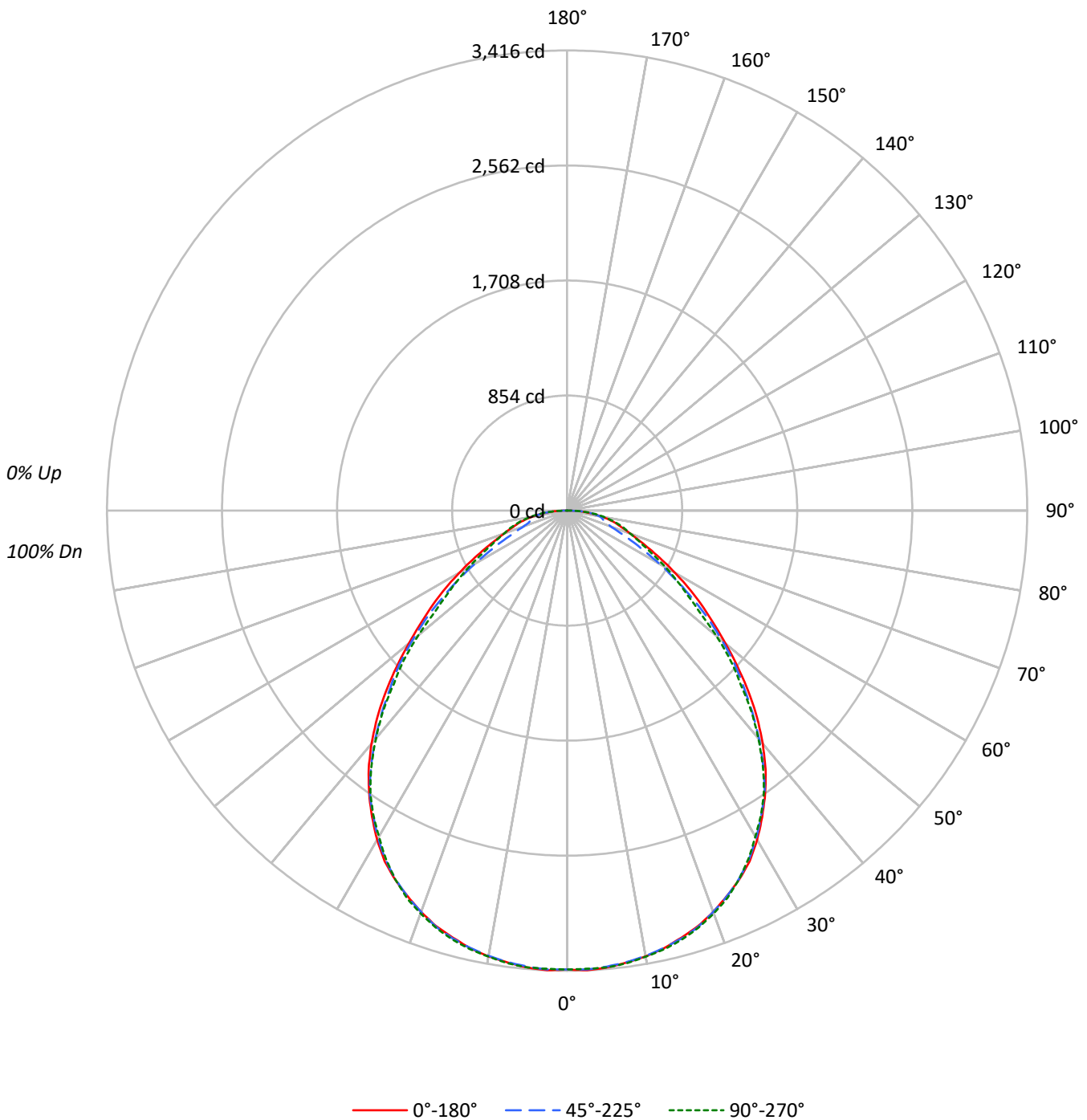
Input Watts (W): 64.17  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4583	4583	4583
5°	4599	4589	4597
10°	4592	4586	4594
15°	4570	4579	4590
20°	4539	4539	4557
25°	4488	4479	4483
30°	4383	4360	4340
35°	4210	4198	4183
40°	3966	3894	3877
45°	3628	3529	3464
50°	3207	3144	3021
55°	2852	2659	2556
60°	2484	2127	2281
65°	2145	1649	2017
70°	1957	1349	1952
75°	1972	1454	2074
80°	2054	1894	2186
85°	2140	2252	2422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	4.1
10°-20°	926.7	11.9
20°-30°	1387.1	17.8
30°-40°	1585.0	20.3
40°-50°	1433.0	18.4
50°-60°	1030.9	13.2
60°-70°	597.7	7.7
70°-80°	354.5	4.5
80°-90°	157.0	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°	2636.8	33.8
0°-40°	4221.8	54.2
0°-60°	6685.8	85.8
0°-90°	7795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7795.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3406	3406	3406	3406	3406	
5°	3405	3400	3398	3393	3404	323
15°	3281	3287	3287	3283	3296	926
25°	3023	3019	3017	3011	3019	1390
35°	2563	2551	2556	2524	2546	1598
45°	1907	1874	1854	1837	1820	1465
55°	1216	1193	1133	1104	1090	1088
65°	674	598	518	579	634	680
75°	379	317	280	345	399	401
85°	139	150	146	168	157	149
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3406.1	3406.1	3406.1	3406.1	3406.1
2.5°	3415.9	3403.7	3409.8	3406.1	3404.9
5°	3404.9	3400.1	3397.6	3392.8	3403.7
7.5°	3383.0	3379.4	3380.6	3381.8	3389.1
10°	3361.2	3355.1	3356.3	3358.7	3362.4
12.5°	3327.1	3323.5	3324.7	3327.1	3335.6
15°	3280.9	3287.0	3287.0	3283.3	3295.5
17.5°	3234.7	3233.5	3239.5	3228.6	3245.6
20°	3170.2	3171.4	3170.2	3171.4	3182.4
22.5°	3097.3	3103.3	3099.7	3099.7	3111.9
25°	3023.1	3019.4	3017.0	3010.9	3019.4
27.5°	2934.3	2927.0	2920.9	2908.8	2914.9
30°	2821.2	2822.4	2806.6	2795.7	2793.3
32.5°	2694.8	2694.8	2680.2	2671.7	2678.9
35°	2563.4	2551.3	2556.1	2524.5	2546.4
37.5°	2421.1	2401.7	2390.7	2379.8	2387.1
40°	2258.2	2232.7	2216.9	2195.0	2207.1
42.5°	2086.7	2055.1	2035.7	2019.9	2024.7
45°	1906.8	1873.9	1854.5	1837.4	1820.4
47.5°	1717.1	1696.4	1686.7	1664.8	1645.3
50°	1532.2	1524.9	1501.8	1483.6	1443.4
52.5°	1363.2	1357.1	1320.6	1290.2	1239.2
55°	1216.0	1192.9	1133.4	1104.2	1089.6
57.5°	1066.5	1028.8	957.0	953.4	963.1
60°	923.0	876.8	790.4	809.9	847.6
62.5°	792.9	723.5	640.9	687.1	732.1
65°	673.7	598.3	518.0	578.8	633.6
67.5°	575.2	499.8	417.1	498.6	561.8
70°	497.4	420.8	342.9	436.6	496.1
72.5°	432.9	363.6	299.1	387.9	449.9
75°	379.4	317.4	279.7	345.4	398.9
77.5°	325.9	276.0	267.5	307.7	340.5
80°	265.1	242.0	244.4	270.0	282.1
82.5°	198.2	199.4	205.5	226.2	221.3
85°	138.6	149.6	145.9	167.8	156.9
87.5°	76.6	83.9	79.0	96.1	86.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)