

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: P293768

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293768  
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-LD5-64-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: 6513.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 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

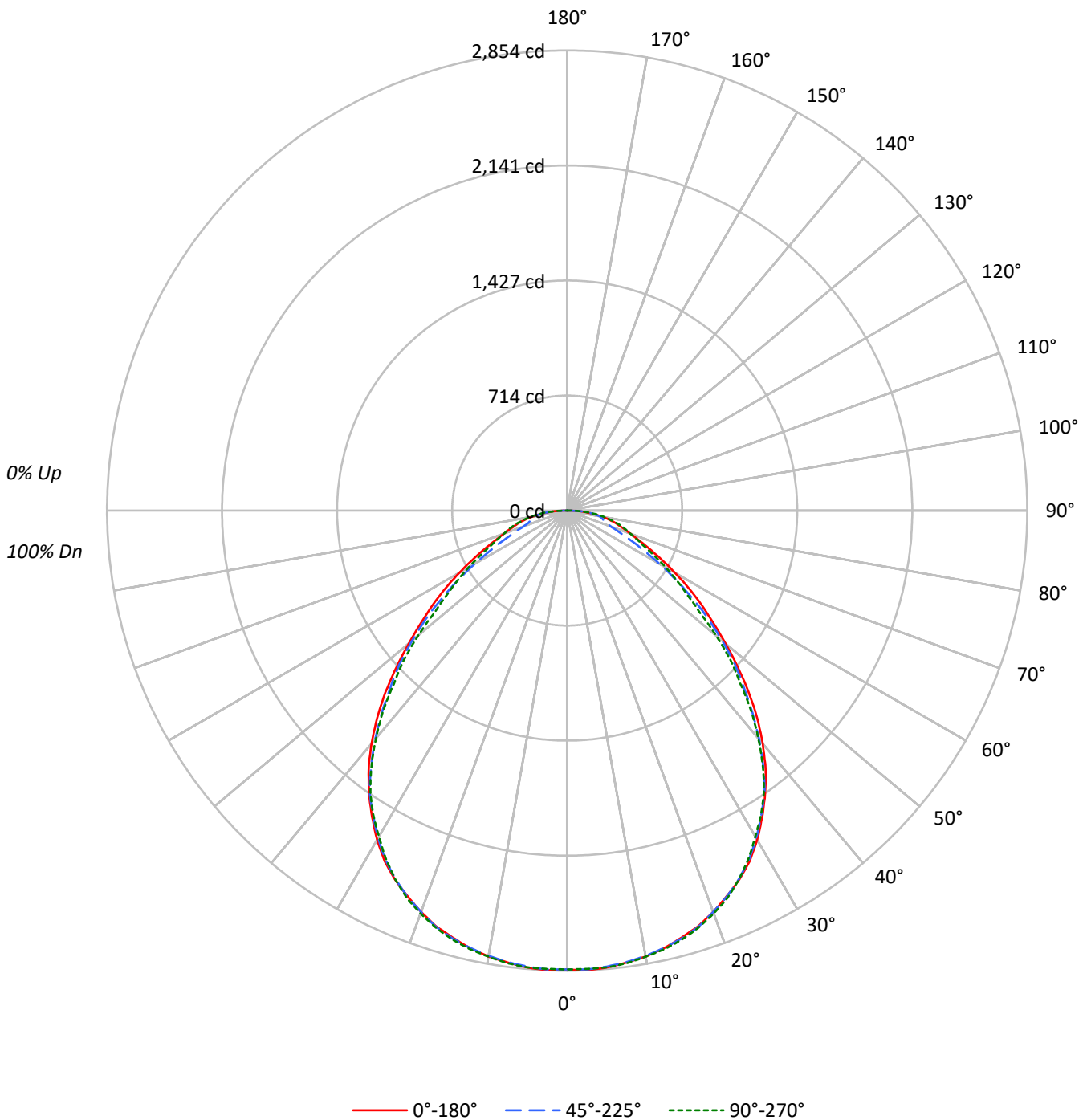
Input Watts (W): 46.779  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3829	3829	3829
5°	3842	3834	3841
10°	3837	3831	3838
15°	3819	3826	3835
20°	3793	3793	3807
25°	3750	3742	3745
30°	3662	3643	3626
35°	3518	3508	3495
40°	3314	3253	3239
45°	3032	2948	2894
50°	2680	2627	2525
55°	2383	2221	2136
60°	2075	1777	1906
65°	1792	1378	1685
70°	1635	1127	1631
75°	1648	1215	1733
80°	1716	1582	1826
85°	1788	1882	2024



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.0	4.1
10°-20°	774.3	11.9
20°-30°	1159.0	17.8
30°-40°	1324.3	20.3
40°-50°	1197.3	18.4
50°-60°	861.4	13.2
60°-70°	499.4	7.7
70°-80°	296.2	4.5
80°-90°	131.2	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°	2203.2	33.8
0°-40°	3527.5	54.2
0°-60°	5586.2	85.8
0°-90°	6513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2846	2846	2846	2846	2846	
5°	2845	2841	2839	2835	2844	270
15°	2741	2746	2746	2743	2754	774
25°	2526	2523	2521	2516	2523	1161
35°	2142	2132	2136	2109	2128	1335
45°	1593	1566	1550	1535	1521	1224
55°	1016	997	947	923	910	909
65°	563	500	433	484	529	568
75°	317	265	234	289	333	335
85°	116	125	122	140	131	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2846.0	2846.0	2846.0	2846.0	2846.0
2.5°	2854.1	2843.9	2849.0	2846.0	2844.9
5°	2844.9	2840.9	2838.8	2834.8	2843.9
7.5°	2826.6	2823.6	2824.6	2825.6	2831.7
10°	2808.4	2803.3	2804.3	2806.3	2809.4
12.5°	2779.9	2776.9	2777.9	2779.9	2787.0
15°	2741.3	2746.4	2746.4	2743.3	2753.5
17.5°	2702.7	2701.7	2706.8	2697.6	2711.8
20°	2648.8	2649.9	2648.8	2649.9	2659.0
22.5°	2587.9	2593.0	2589.9	2589.9	2600.1
25°	2525.9	2522.9	2520.8	2515.7	2522.9
27.5°	2451.7	2445.6	2440.6	2430.4	2435.5
30°	2357.2	2358.3	2345.0	2335.9	2333.9
32.5°	2251.6	2251.6	2239.4	2232.3	2238.4
35°	2141.8	2131.7	2135.7	2109.3	2127.6
37.5°	2023.0	2006.7	1997.6	1988.4	1994.5
40°	1886.8	1865.5	1852.3	1834.0	1844.1
42.5°	1743.5	1717.1	1700.9	1687.7	1691.7
45°	1593.2	1565.7	1549.5	1535.3	1521.0
47.5°	1434.7	1417.4	1409.3	1391.0	1374.7
50°	1280.2	1274.1	1254.8	1239.6	1206.1
52.5°	1139.0	1133.9	1103.4	1078.0	1035.4
55°	1016.0	996.7	947.0	922.6	910.4
57.5°	891.1	859.6	799.6	796.6	804.7
60°	771.2	732.6	660.4	676.7	708.2
62.5°	662.5	604.5	535.5	574.1	611.7
65°	562.9	499.9	432.8	483.6	529.4
67.5°	480.6	417.6	348.5	416.6	469.4
70°	415.6	351.6	286.5	364.8	414.5
72.5°	361.7	303.8	249.9	324.1	375.9
75°	317.0	265.2	233.7	288.6	333.3
77.5°	272.3	230.6	223.5	257.1	284.5
80°	221.5	202.2	204.2	225.6	235.7
82.5°	165.6	166.6	171.7	189.0	184.9
85°	115.8	125.0	121.9	140.2	131.1
87.5°	64.0	70.1	66.0	80.3	72.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)