

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: P293895

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293895  
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-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5926.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

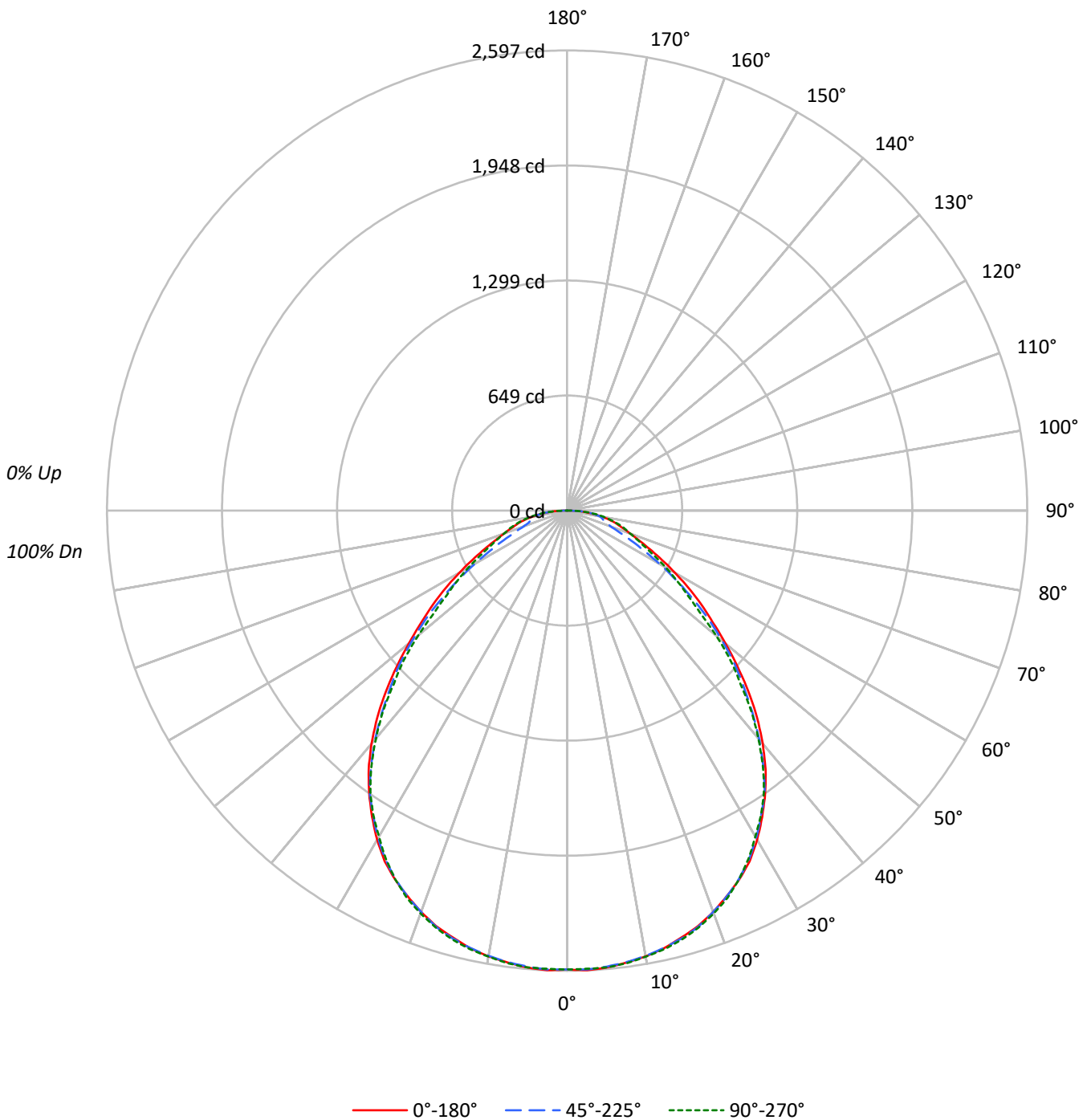
Input Watts (W): 47.058  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3484	3484	3484
5°	3496	3489	3495
10°	3491	3486	3492
15°	3474	3481	3490
20°	3451	3451	3464
25°	3412	3405	3408
30°	3332	3315	3299
35°	3201	3192	3180
40°	3015	2960	2947
45°	2758	2683	2633
50°	2438	2390	2297
55°	2169	2021	1943
60°	1888	1617	1734
65°	1631	1254	1534
70°	1487	1026	1484
75°	1499	1105	1576
80°	1561	1440	1662
85°	1627	1712	1842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.6	4.1
10°-20°	704.5	11.9
20°-30°	1054.5	17.8
30°-40°	1204.9	20.3
40°-50°	1089.4	18.4
50°-60°	783.8	13.2
60°-70°	454.4	7.7
70°-80°	269.5	4.5
80°-90°	119.4	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°	2004.6	33.8
0°-40°	3209.6	54.2
0°-60°	5082.7	85.8
0°-90°	5926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5926.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2588	2585	2583	2579	2588	246
15°	2494	2499	2499	2496	2505	704
25°	2298	2296	2294	2289	2296	1057
35°	1949	1940	1943	1919	1936	1215
45°	1450	1425	1410	1397	1384	1114
55°	924	907	862	839	828	827
65°	512	455	394	440	482	517
75°	288	241	213	263	303	305
85°	105	114	111	128	119	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2589.5	2589.5	2589.5	2589.5	2589.5
2.5°	2596.9	2587.6	2592.2	2589.5	2588.5
5°	2588.5	2584.8	2583.0	2579.3	2587.6
7.5°	2571.9	2569.1	2570.0	2571.0	2576.5
10°	2555.3	2550.6	2551.6	2553.4	2556.2
12.5°	2529.4	2526.6	2527.5	2529.4	2535.8
15°	2494.2	2498.9	2498.9	2496.1	2505.3
17.5°	2459.1	2458.2	2462.8	2454.5	2467.4
20°	2410.1	2411.0	2410.1	2411.0	2419.4
22.5°	2354.6	2359.3	2356.5	2356.5	2365.7
25°	2298.2	2295.5	2293.6	2289.0	2295.5
27.5°	2230.8	2225.2	2220.6	2211.3	2216.0
30°	2144.8	2145.7	2133.7	2125.4	2123.5
32.5°	2048.6	2048.6	2037.5	2031.1	2036.6
35°	1948.8	1939.5	1943.2	1919.2	1935.9
37.5°	1840.6	1825.8	1817.5	1809.2	1814.7
40°	1716.8	1697.3	1685.3	1668.7	1677.9
42.5°	1586.4	1562.4	1547.6	1535.6	1539.3
45°	1449.6	1424.6	1409.8	1396.9	1383.9
47.5°	1305.4	1289.6	1282.2	1265.6	1250.8
50°	1164.8	1159.3	1141.7	1127.9	1097.4
52.5°	1036.3	1031.7	1004.0	980.9	942.0
55°	924.5	906.9	861.6	839.4	828.3
57.5°	810.8	782.1	727.6	724.8	732.2
60°	701.7	666.5	600.9	615.7	644.4
62.5°	602.8	550.1	487.2	522.3	556.5
65°	512.2	454.8	393.8	440.1	481.7
67.5°	437.3	380.0	317.1	379.0	427.1
70°	378.1	319.9	260.7	331.9	377.2
72.5°	329.1	276.4	227.4	294.9	342.1
75°	288.4	241.3	212.6	262.6	303.2
77.5°	247.8	209.9	203.4	233.9	258.9
80°	201.5	184.0	185.8	205.2	214.5
82.5°	150.7	151.6	156.2	172.0	168.3
85°	105.4	113.7	110.9	127.6	119.3
87.5°	58.2	63.8	60.1	73.0	65.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)