

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: P293520

Luminaire Tested: **24GR-LD5-64-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293520  
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-LD5-64-A-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6767.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

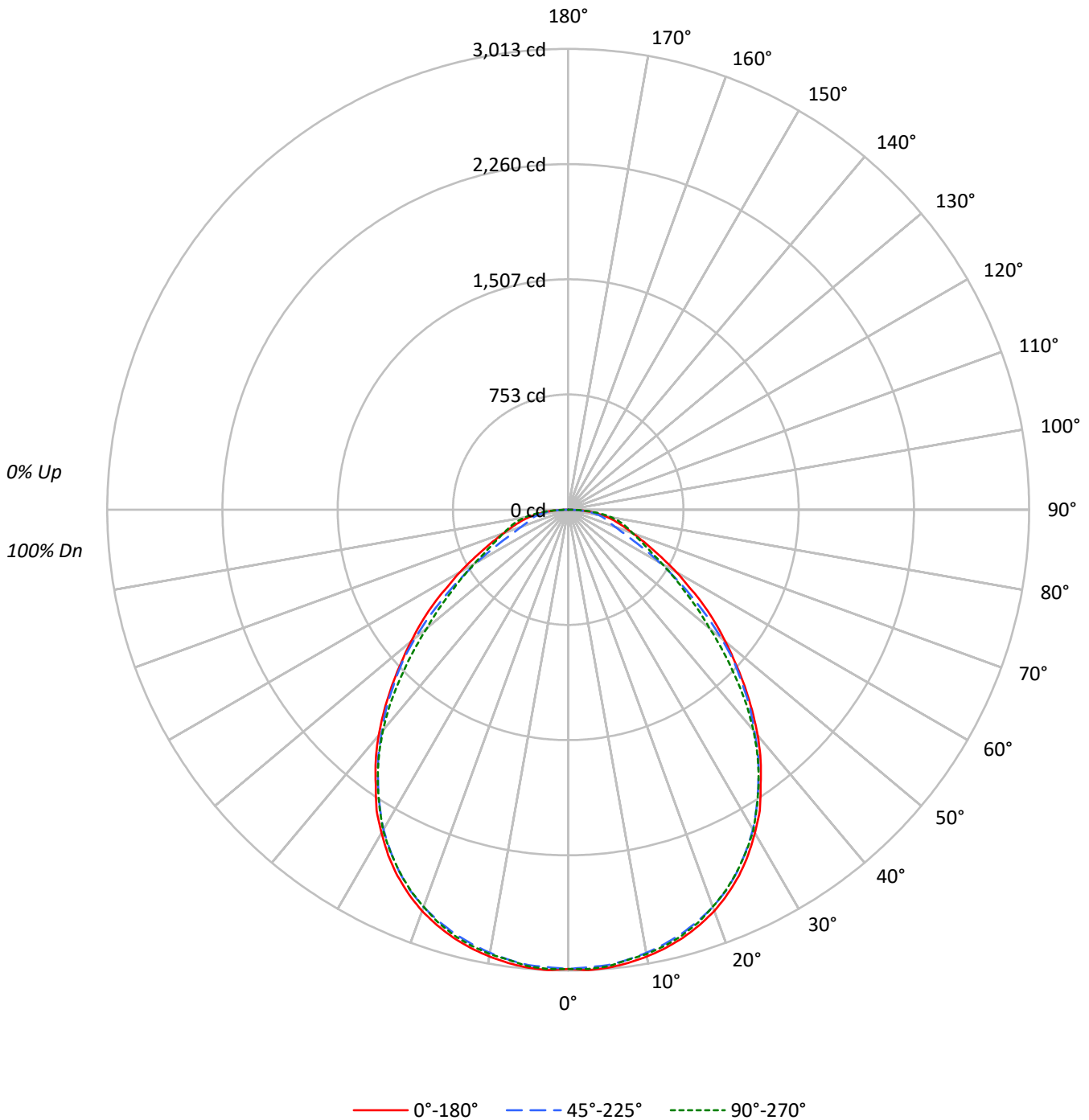
Input Watts (W): 47.988  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293520

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L82765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293520

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L82765-W2A1-U-6500K

**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°	4040	4040	4040
5°	4059	4037	4047
10°	4052	4019	4031
15°	4037	3996	4013
20°	3998	3958	3956
25°	3920	3878	3875
30°	3791	3752	3760
35°	3601	3560	3565
40°	3386	3327	3307
45°	3103	3061	2940
50°	2805	2729	2523
55°	2518	2293	2175
60°	2206	1845	1913
65°	1924	1451	1761
70°	1760	1267	1760
75°	1761	1348	1940
80°	1912	1588	2211
85°	2098	1791	2373



TEST NUMBER: P293520

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L82765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.3	4.2
10°-20°	811.4	12.0
20°-30°	1203.1	17.8
30°-40°	1357.3	20.1
40°-50°	1229.3	18.2
50°-60°	886.9	13.1
60°-70°	529.5	7.8
70°-80°	327.3	4.8
80°-90°	137.9	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°	2298.9	34.0
0°-40°	3656.1	54.0
0°-60°	5772.3	85.3
0°-90°	6767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3002	3002	3002	3002	3002	
5°	3006	3001	2989	2986	2996	286
15°	2898	2880	2869	2870	2881	817
25°	2641	2626	2612	2603	2610	1213
35°	2192	2189	2167	2168	2170	1372
45°	1631	1620	1609	1569	1545	1257
55°	1074	1040	978	929	927	958
65°	604	532	456	518	553	608
75°	339	294	259	323	373	362
85°	136	119	116	152	154	142
90°	0	0	0	0	0	



TEST NUMBER: P293520

CATALOG NUMBER: 24GR-LD5-64-A-UNV-L82765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3002.4	3002.4	3002.4	3002.4	3002.4
2.5°	3012.9	3004.5	2994.1	3000.3	3005.6
5°	3005.6	3001.4	2988.8	2985.7	2996.2
7.5°	2989.9	2979.4	2967.9	2973.2	2969.0
10°	2965.8	2956.4	2941.8	2942.9	2950.2
12.5°	2936.6	2925.1	2909.4	2913.6	2919.9
15°	2897.9	2880.1	2868.6	2869.7	2881.2
17.5°	2848.8	2835.2	2820.5	2823.7	2828.9
20°	2792.3	2785.0	2764.1	2757.8	2763.0
22.5°	2721.2	2707.6	2696.1	2693.0	2694.0
25°	2640.7	2626.1	2612.5	2603.1	2610.4
27.5°	2546.6	2534.1	2516.3	2513.2	2519.5
30°	2440.0	2430.6	2414.9	2410.7	2420.1
32.5°	2331.3	2315.6	2293.6	2293.6	2295.7
35°	2192.2	2189.1	2167.2	2168.2	2170.3
37.5°	2066.8	2052.2	2039.6	2027.1	2033.3
40°	1927.8	1911.0	1894.3	1885.9	1882.8
42.5°	1778.3	1765.7	1758.4	1728.1	1720.8
45°	1630.9	1620.4	1608.9	1569.2	1545.1
47.5°	1480.3	1478.2	1468.8	1398.8	1374.7
50°	1340.2	1337.1	1303.6	1229.4	1205.4
52.5°	1207.5	1186.5	1142.6	1069.5	1065.3
55°	1073.6	1040.2	977.5	929.4	927.3
57.5°	932.5	892.8	829.0	802.9	816.5
60°	819.6	759.0	685.8	688.9	710.9
62.5°	702.5	634.6	562.4	593.8	619.9
65°	604.3	532.1	455.8	517.5	553.0
67.5°	518.5	451.6	378.4	461.0	495.5
70°	447.4	393.1	322.0	408.8	447.4
72.5°	391.0	340.8	285.4	366.9	411.9
75°	338.7	293.8	259.3	323.0	373.2
77.5°	293.8	249.9	234.2	285.4	334.5
80°	246.7	207.0	204.9	248.8	285.4
82.5°	192.4	165.2	165.2	208.0	230.0
85°	135.9	119.2	116.0	151.6	153.7
87.5°	70.0	66.9	60.6	79.5	79.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)