

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: P475737

Luminaire Tested: **24GR-LD5-64-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475737  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-A-UNV-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6264.7 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

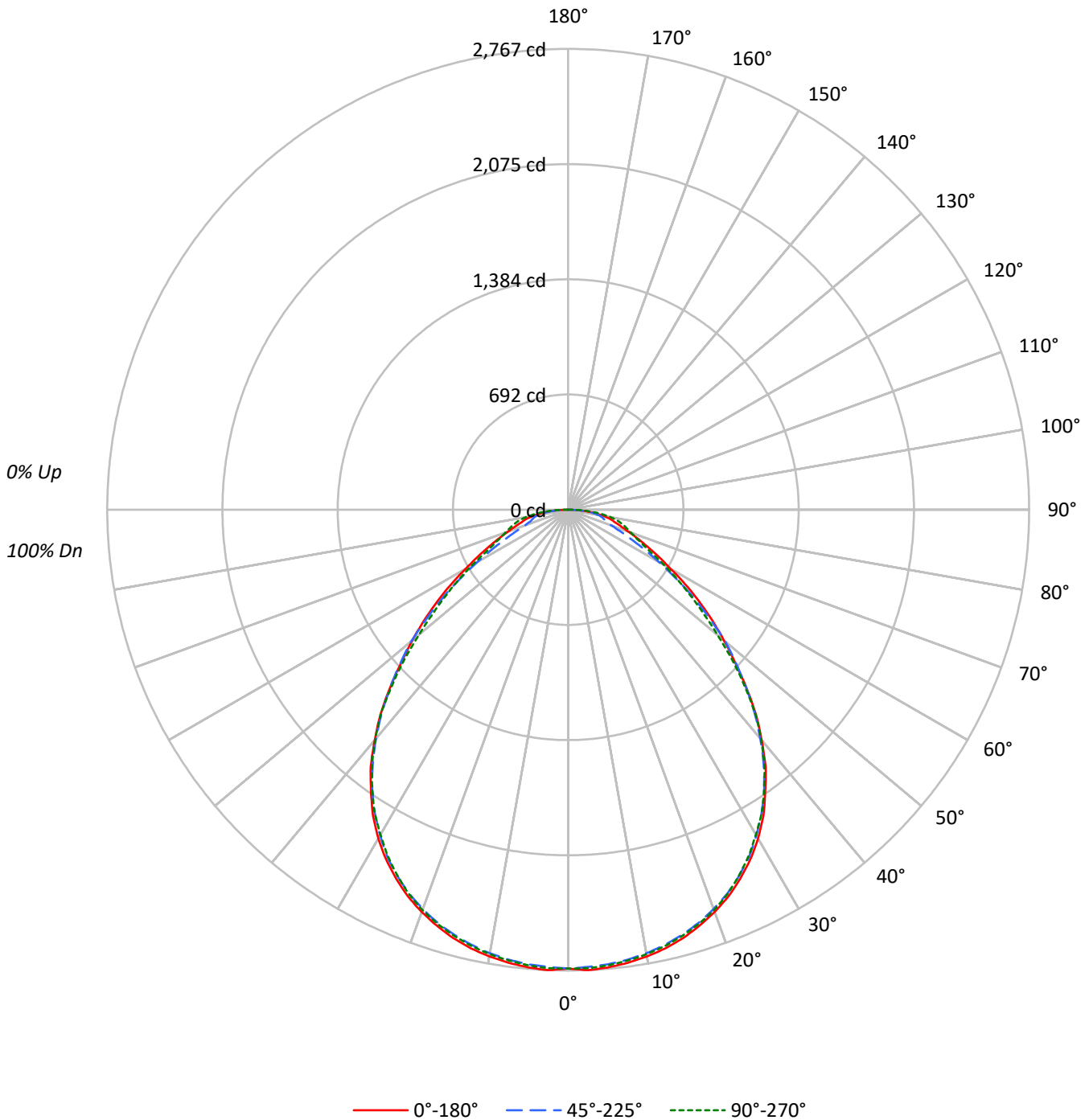
Input Watts (W): 43.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	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	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3707	3707	3707
5°	3726	3701	3709
10°	3720	3695	3702
15°	3709	3680	3689
20°	3680	3654	3664
25°	3629	3603	3600
30°	3541	3509	3500
35°	3389	3368	3368
40°	3171	3153	3166
45°	2879	2875	2851
50°	2554	2573	2447
55°	2244	2146	2095
60°	1911	1695	1783
65°	1669	1318	1573
70°	1509	1085	1570
75°	1510	1158	1754
80°	1664	1424	2008
85°	1714	1599	2191



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	4.2
10°-20°	747.0	11.9
20°-30°	1117.4	17.8
30°-40°	1278.7	20.4
40°-50°	1158.5	18.5
50°-60°	820.2	13.1
60°-70°	473.8	7.6
70°-80°	287.3	4.6
80°-90°	120.9	1.9
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°	2125.3	33.9
0°-40°	3404.0	54.3
0°-60°	5382.7	85.9
0°-90°	6264.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6264.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2755	2755	2755	2755	2755	
5°	2758	2749	2740	2739	2746	262
15°	2663	2652	2642	2642	2648	751
25°	2445	2435	2427	2425	2425	1124
35°	2063	2054	2050	2047	2050	1287
45°	1513	1510	1511	1500	1498	1166
55°	957	925	915	888	893	857
65°	524	470	414	474	494	527
75°	290	260	223	286	337	311
85°	111	100	104	133	142	119
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2755.4	2755.4	2755.4	2755.4	2755.4
2.5°	2767.2	2756.7	2747.4	2748.7	2755.4
5°	2758.5	2748.7	2740.0	2739.4	2746.2
7.5°	2743.7	2735.1	2725.2	2725.2	2730.8
10°	2722.8	2714.1	2704.2	2703.6	2709.8
12.5°	2698.1	2687.0	2676.5	2676.5	2683.3
15°	2662.9	2652.4	2641.9	2641.9	2648.1
17.5°	2619.7	2610.5	2601.8	2602.5	2607.4
20°	2570.4	2561.1	2551.9	2553.1	2558.7
22.5°	2513.6	2502.5	2495.1	2494.5	2498.2
25°	2444.6	2434.7	2426.7	2424.8	2424.8
27.5°	2367.4	2357.0	2351.4	2342.8	2345.2
30°	2279.2	2268.1	2258.3	2253.3	2252.7
32.5°	2179.9	2168.8	2160.2	2159.6	2162.0
35°	2063.3	2054.1	2050.4	2047.3	2050.4
37.5°	1948.0	1930.7	1927.6	1927.0	1935.0
40°	1805.5	1799.3	1795.0	1791.9	1802.4
42.5°	1668.6	1656.2	1657.5	1645.7	1664.2
45°	1513.1	1510.0	1510.7	1499.5	1498.3
47.5°	1358.9	1358.3	1367.5	1336.7	1334.9
50°	1220.1	1213.9	1229.4	1181.9	1168.9
52.5°	1087.5	1070.2	1065.3	1022.1	1022.1
55°	956.7	924.6	914.8	887.6	893.2
57.5°	832.7	787.1	766.7	766.1	775.4
60°	710.0	658.2	629.8	652.0	662.5
62.5°	612.5	555.8	512.6	554.5	564.4
65°	524.3	470.0	413.9	473.7	494.1
67.5°	448.4	403.4	333.1	411.4	438.6
70°	383.7	343.6	275.7	362.7	399.1
72.5°	332.5	299.2	240.0	323.8	367.6
75°	290.5	260.3	222.7	286.2	337.4
77.5°	257.2	221.4	208.5	250.4	302.9
80°	214.7	182.0	183.8	215.3	259.1
82.5°	165.3	140.6	148.0	178.3	203.6
85°	111.0	99.9	103.6	132.6	141.9
87.5°	54.9	53.0	56.7	77.7	77.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)