

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: P475738

Luminaire Tested: **24GR-LD5-72-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475738
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-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: 7032.8 lumens
Efficiency: N/A
Efficacy: 144.4 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

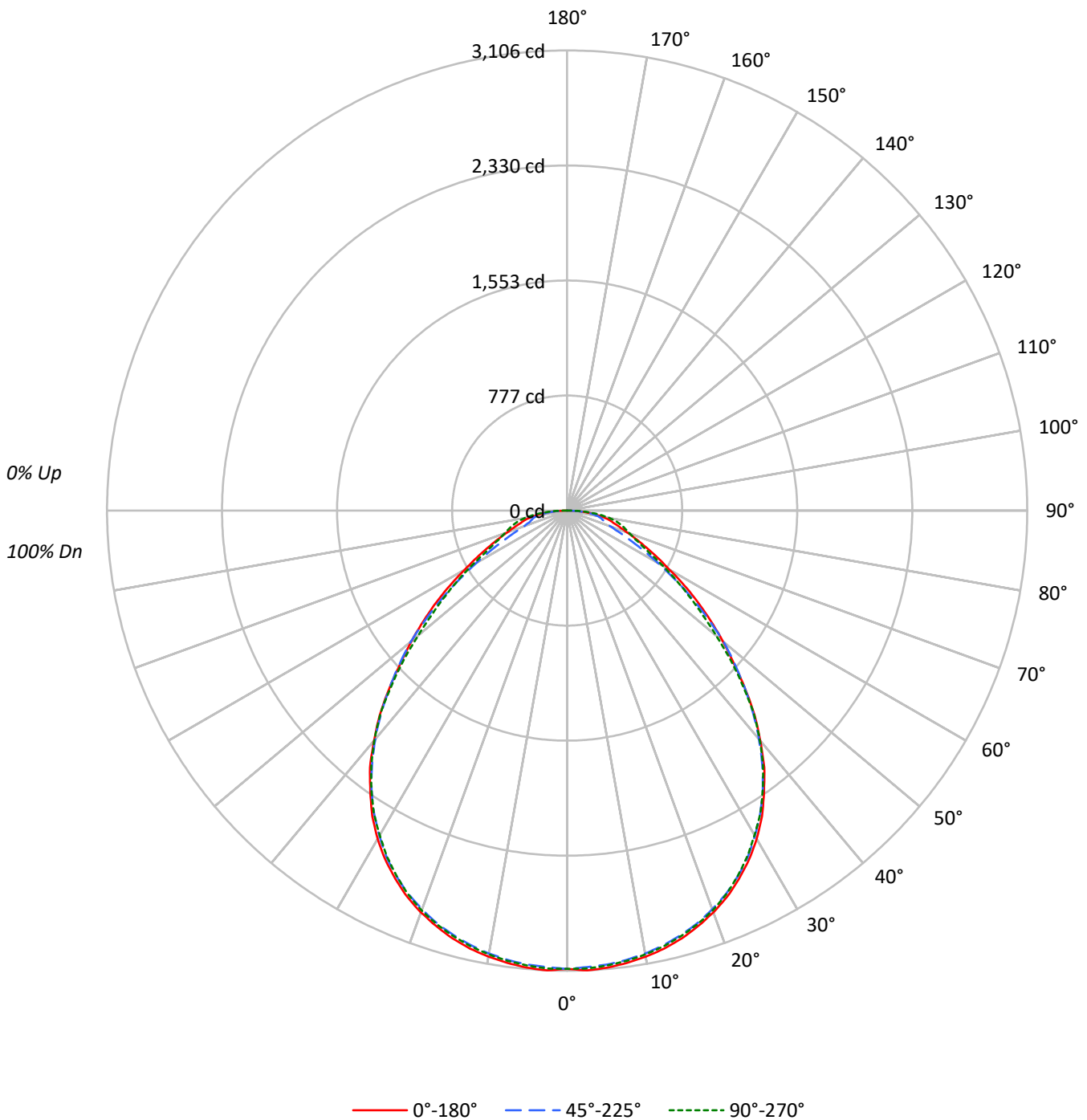
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4162	4162	4162
5°	4182	4154	4164
10°	4176	4148	4156
15°	4164	4131	4141
20°	4132	4102	4113
25°	4074	4044	4041
30°	3975	3939	3929
35°	3805	3781	3781
40°	3560	3539	3554
45°	3232	3227	3201
50°	2867	2889	2747
55°	2519	2409	2352
60°	2145	1903	2001
65°	1874	1479	1766
70°	1694	1218	1762
75°	1696	1300	1969
80°	1867	1599	2253
85°	1924	1795	2459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	4.2
10°-20°	838.5	11.9
20°-30°	1254.4	17.8
30°-40°	1435.5	20.4
40°-50°	1300.6	18.5
50°-60°	920.8	13.1
60°-70°	531.9	7.6
70°-80°	322.5	4.6
80°-90°	135.7	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°	2385.8	33.9
0°-40°	3821.3	54.3
0°-60°	6042.7	85.9
0°-90°	7032.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7032.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3093	3093	3093	3093	3093	
5°	3097	3086	3076	3075	3083	294
15°	2989	2978	2966	2966	2973	843
25°	2744	2733	2724	2722	2722	1262
35°	2316	2306	2302	2298	2302	1445
45°	1699	1695	1696	1683	1682	1309
55°	1074	1038	1027	996	1003	962
65°	589	528	465	532	555	592
75°	326	292	250	321	379	349
85°	125	112	116	149	159	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3093.2	3093.2	3093.2	3093.2	3093.2
2.5°	3106.4	3094.6	3084.2	3085.6	3093.2
5°	3096.7	3085.6	3075.9	3075.2	3082.9
7.5°	3080.1	3070.4	3059.3	3059.3	3065.5
10°	3056.5	3046.8	3035.8	3035.1	3042.0
12.5°	3028.8	3016.4	3004.6	3004.6	3012.2
15°	2989.4	2977.6	2965.8	2965.8	2972.8
17.5°	2940.9	2930.5	2920.8	2921.5	2927.1
20°	2885.5	2875.1	2864.7	2866.1	2872.3
22.5°	2821.8	2809.3	2801.0	2800.3	2804.5
25°	2744.2	2733.2	2724.2	2722.1	2722.1
27.5°	2657.7	2645.9	2639.7	2630.0	2632.8
30°	2558.7	2546.2	2535.1	2529.6	2528.9
32.5°	2447.2	2434.7	2425.0	2424.3	2427.1
35°	2316.3	2305.9	2301.8	2298.3	2301.8
37.5°	2186.8	2167.4	2164.0	2163.3	2172.3
40°	2026.8	2019.9	2015.1	2011.6	2023.4
42.5°	1873.1	1859.3	1860.7	1847.5	1868.3
45°	1698.6	1695.2	1695.8	1683.4	1682.0
47.5°	1525.5	1524.8	1535.2	1500.6	1498.5
50°	1369.7	1362.8	1380.1	1326.8	1312.2
52.5°	1220.8	1201.4	1195.9	1147.4	1147.4
55°	1074.0	1038.0	1026.9	996.5	1002.7
57.5°	934.8	883.6	860.7	860.0	870.4
60°	797.0	738.9	707.0	731.9	743.7
62.5°	687.6	623.9	575.4	622.5	633.6
65°	588.6	527.7	464.6	531.8	554.7
67.5°	503.4	452.9	373.9	461.9	492.3
70°	430.7	385.7	309.5	407.2	448.0
72.5°	373.2	335.8	269.4	363.5	412.7
75°	326.2	292.2	250.0	321.3	378.8
77.5°	288.8	248.6	234.1	281.1	340.0
80°	241.0	204.3	206.4	241.7	290.8
82.5°	185.6	157.9	166.2	200.1	228.5
85°	124.6	112.2	116.3	148.9	159.3
87.5°	61.6	59.6	63.7	87.3	87.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)