

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: P475708

Luminaire Tested: **24GR-LD5-72-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475708
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6660.1 lumens
Efficiency: N/A
Efficacy: 136.8 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

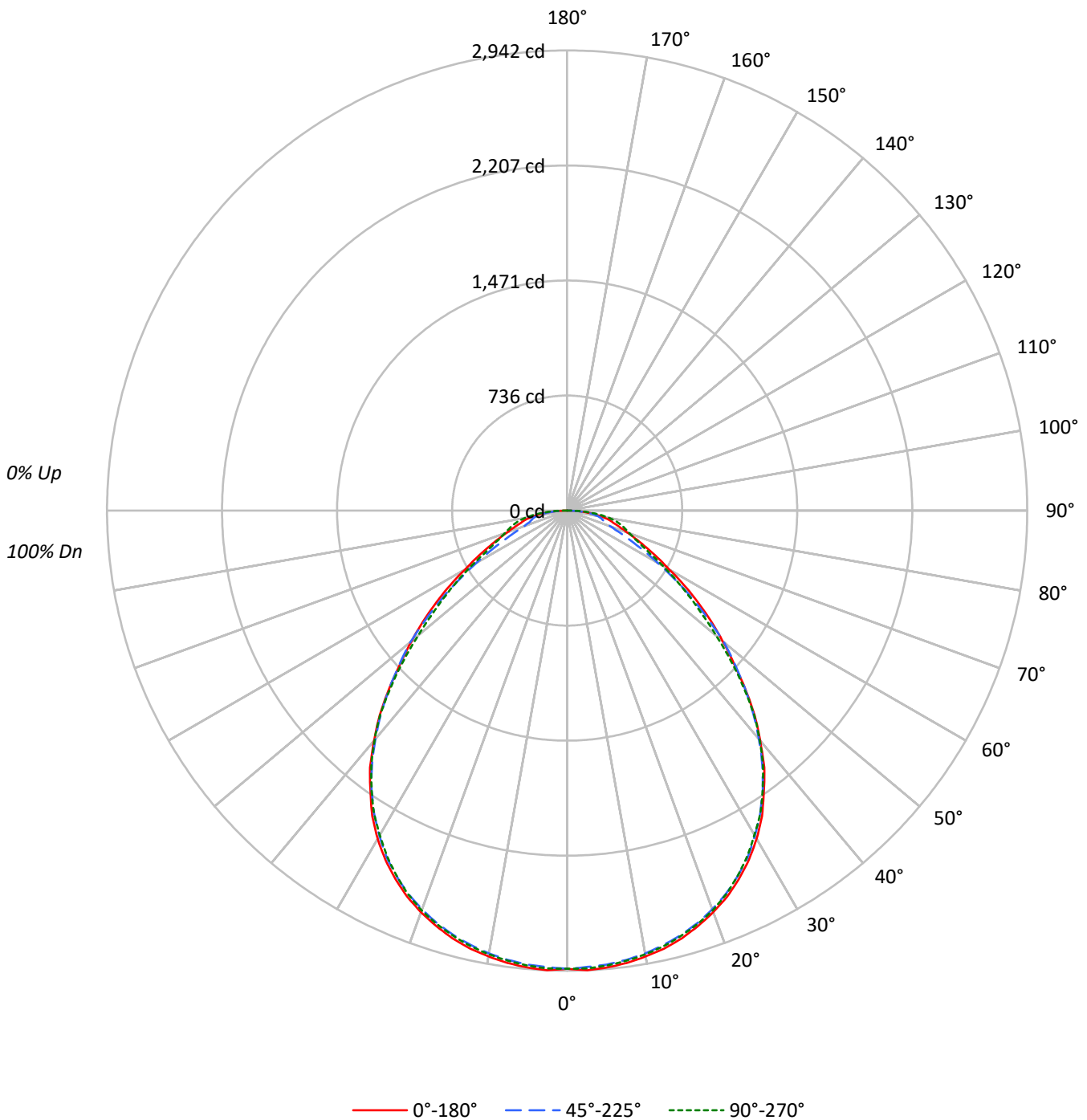
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56				56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3941	3941	3941
5°	3961	3934	3943
10°	3955	3928	3936
15°	3943	3912	3921
20°	3913	3884	3895
25°	3858	3830	3827
30°	3765	3730	3721
35°	3603	3580	3580
40°	3371	3352	3366
45°	3061	3056	3031
50°	2715	2736	2601
55°	2386	2281	2228
60°	2031	1802	1895
65°	1775	1401	1672
70°	1605	1153	1669
75°	1606	1231	1865
80°	1768	1514	2134
85°	1822	1701	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	4.2
10°-20°	794.1	11.9
20°-30°	1187.9	17.8
30°-40°	1359.4	20.4
40°-50°	1231.7	18.5
50°-60°	872.0	13.1
60°-70°	503.7	7.6
70°-80°	305.4	4.6
80°-90°	128.5	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°	2259.4	33.9
0°-40°	3618.8	54.3
0°-60°	5722.5	85.9
0°-90°	6660.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6660.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2929	2929	2929	2929	2929	
5°	2933	2922	2913	2912	2920	279
15°	2831	2820	2809	2809	2815	798
25°	2599	2588	2580	2578	2578	1195
35°	2194	2184	2180	2176	2180	1369
45°	1609	1605	1606	1594	1593	1239
55°	1017	983	972	944	950	911
65°	557	500	440	504	525	560
75°	309	277	237	304	359	331
85°	118	106	110	141	151	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2929.3	2929.3	2929.3	2929.3	2929.3
2.5°	2941.8	2930.6	2920.8	2922.1	2929.3
5°	2932.6	2922.1	2912.9	2912.3	2919.5
7.5°	2916.9	2907.7	2897.2	2897.2	2903.1
10°	2894.6	2885.4	2874.9	2874.2	2880.8
12.5°	2868.3	2856.5	2845.4	2845.4	2852.6
15°	2831.0	2819.8	2808.7	2808.7	2815.2
17.5°	2785.1	2775.2	2766.0	2766.7	2771.9
20°	2732.6	2722.8	2712.9	2714.2	2720.1
22.5°	2672.3	2660.5	2652.6	2651.9	2655.9
25°	2598.8	2588.3	2579.8	2577.8	2577.8
27.5°	2516.8	2505.7	2499.8	2490.6	2493.2
30°	2423.1	2411.3	2400.8	2395.5	2394.9
32.5°	2317.5	2305.7	2296.5	2295.8	2298.5
35°	2193.5	2183.7	2179.8	2176.5	2179.8
37.5°	2070.9	2052.6	2049.3	2048.6	2057.1
40°	1919.4	1912.9	1908.3	1905.0	1916.2
42.5°	1773.9	1760.7	1762.1	1749.6	1769.3
45°	1608.6	1605.3	1606.0	1594.2	1592.9
47.5°	1444.7	1444.0	1453.8	1421.1	1419.1
50°	1297.1	1290.6	1306.9	1256.5	1242.7
52.5°	1156.1	1137.8	1132.5	1086.6	1086.6
55°	1017.1	983.0	972.5	943.7	949.6
57.5°	885.3	836.8	815.1	814.5	824.3
60°	754.8	699.7	669.5	693.1	704.3
62.5°	651.2	590.8	544.9	589.5	600.0
65°	557.4	499.7	440.0	503.6	525.3
67.5°	476.7	428.9	354.1	437.4	466.3
70°	407.9	365.3	293.1	385.6	424.3
72.5°	353.5	318.0	255.1	344.3	390.8
75°	308.9	276.7	236.7	304.3	358.7
77.5°	273.5	235.4	221.7	266.2	322.0
80°	228.2	193.5	195.4	228.9	275.4
82.5°	175.7	149.5	157.4	189.5	216.4
85°	118.0	106.2	110.2	141.0	150.8
87.5°	58.4	56.4	60.3	82.6	82.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)