

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: P475783

Luminaire Tested: **24GR-LD5-72-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475783
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7143.7 lumens
Efficiency: N/A
Efficacy: 146.7 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

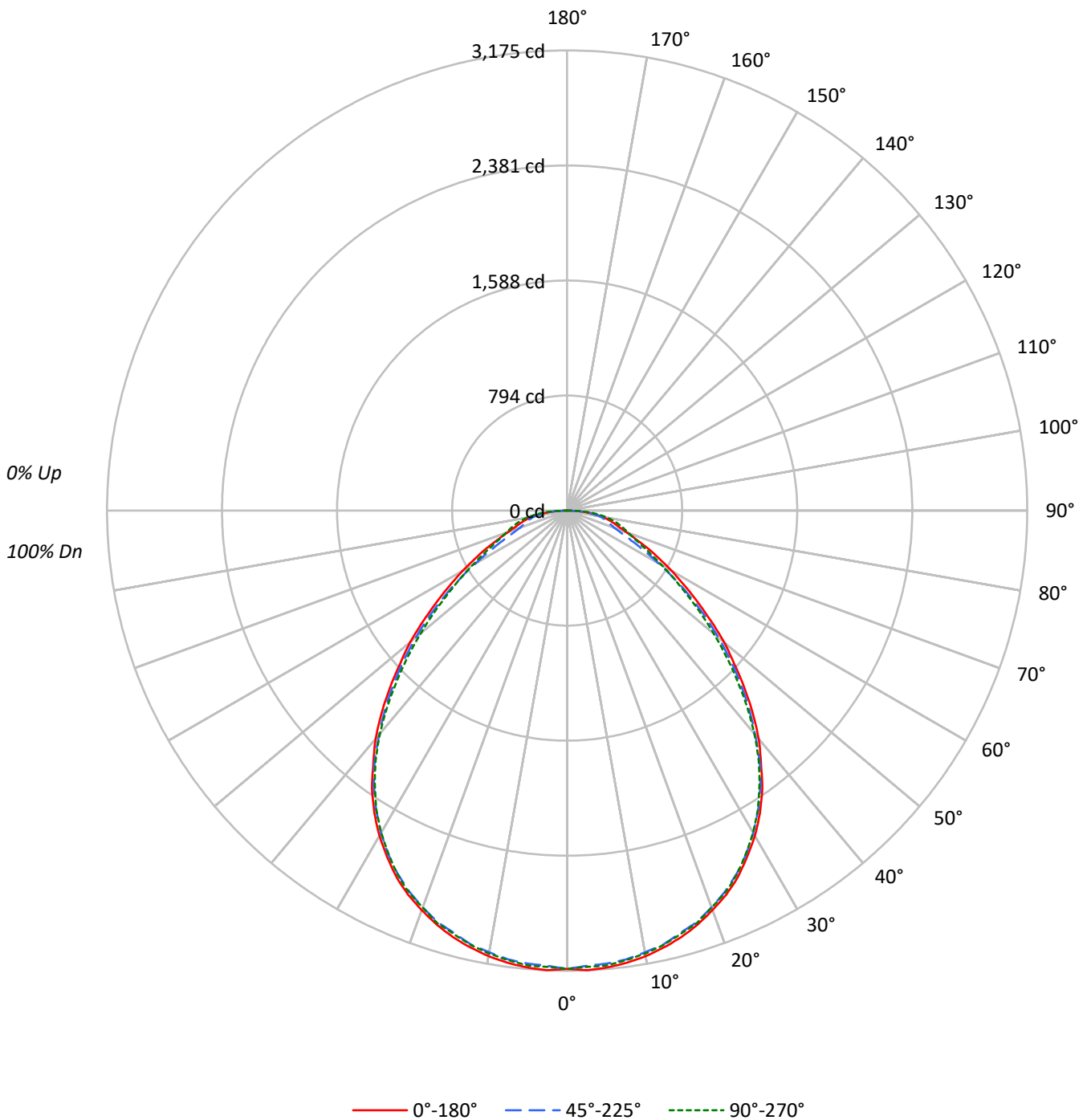
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	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	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	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°	4254	4254	4254
5°	4274	4237	4255
10°	4265	4228	4240
15°	4244	4203	4212
20°	4200	4171	4173
25°	4140	4107	4113
30°	4025	3989	3987
35°	3856	3818	3799
40°	3613	3543	3528
45°	3289	3223	3162
50°	2961	2857	2763
55°	2570	2430	2357
60°	2244	1959	2027
65°	1942	1557	1802
70°	1712	1365	1760
75°	1719	1484	1925
80°	1884	1764	2180
85°	1985	1920	2498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	4.2
10°-20°	853.9	12.0
20°-30°	1273.0	17.8
30°-40°	1447.2	20.3
40°-50°	1304.2	18.3
50°-60°	939.4	13.2
60°-70°	546.4	7.6
70°-80°	334.3	4.7
80°-90°	146.3	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°	2425.7	34.0
0°-40°	3872.9	54.2
0°-60°	6116.6	85.6
0°-90°	7143.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7143.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3162	3162	3162	3162	3162	
5°	3165	3143	3137	3144	3150	301
15°	3047	3030	3017	3022	3024	859
25°	2789	2772	2766	2762	2770	1281
35°	2348	2331	2324	2311	2313	1461
45°	1729	1709	1694	1668	1662	1333
55°	1095	1069	1036	1025	1005	988
65°	610	548	489	527	566	610
75°	331	300	286	325	370	352
85°	129	127	124	169	162	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3161.8	3161.8	3161.8	3161.8	3161.8
2.5°	3174.6	3157.6	3143.5	3144.2	3151.2
5°	3164.7	3142.8	3137.1	3143.5	3150.5
7.5°	3147.0	3126.5	3123.0	3119.4	3127.9
10°	3121.6	3107.4	3094.7	3098.2	3103.2
12.5°	3087.6	3075.6	3066.4	3059.4	3070.0
15°	3046.6	3029.7	3017.0	3021.9	3024.0
17.5°	2995.1	2978.8	2975.3	2972.4	2983.0
20°	2933.6	2923.7	2913.1	2915.9	2914.5
22.5°	2868.6	2853.7	2845.2	2841.0	2852.3
25°	2788.7	2771.7	2766.1	2761.8	2770.3
27.5°	2691.2	2682.0	2674.2	2668.6	2669.3
30°	2590.8	2581.6	2567.5	2563.2	2566.1
32.5°	2475.6	2465.0	2452.3	2439.6	2448.8
35°	2347.7	2331.4	2324.4	2311.0	2313.1
37.5°	2196.5	2189.4	2183.0	2165.4	2171.0
40°	2057.2	2038.2	2017.0	2006.4	2008.5
42.5°	1896.1	1876.3	1859.4	1844.5	1837.5
45°	1728.6	1708.8	1694.0	1667.8	1661.5
47.5°	1561.8	1543.5	1527.2	1506.7	1488.3
50°	1414.8	1380.9	1364.7	1343.5	1320.1
52.5°	1249.5	1229.7	1197.9	1180.2	1159.0
55°	1095.4	1069.3	1036.0	1025.4	1004.9
57.5°	956.9	928.6	879.9	875.6	874.9
60°	833.9	795.8	727.9	732.9	753.4
62.5°	714.5	660.1	598.6	620.5	650.9
65°	609.9	548.4	489.0	527.2	566.1
67.5°	509.5	454.4	404.2	455.1	496.1
70°	435.3	389.4	347.0	401.4	447.3
72.5°	373.1	337.8	310.2	359.7	409.2
75°	330.7	299.6	285.5	325.1	370.3
77.5°	291.2	263.6	259.4	294.7	327.9
80°	243.1	224.0	227.6	263.6	281.3
82.5°	185.2	179.5	180.2	225.4	229.0
85°	128.6	127.2	124.4	168.9	161.8
87.5°	65.0	66.4	65.7	96.1	86.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)