

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: P475817

Luminaire Tested: **24GR-LD5-120-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475817
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-120-A125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12310.9 lumens
Efficiency: N/A
Efficacy: 151.2 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

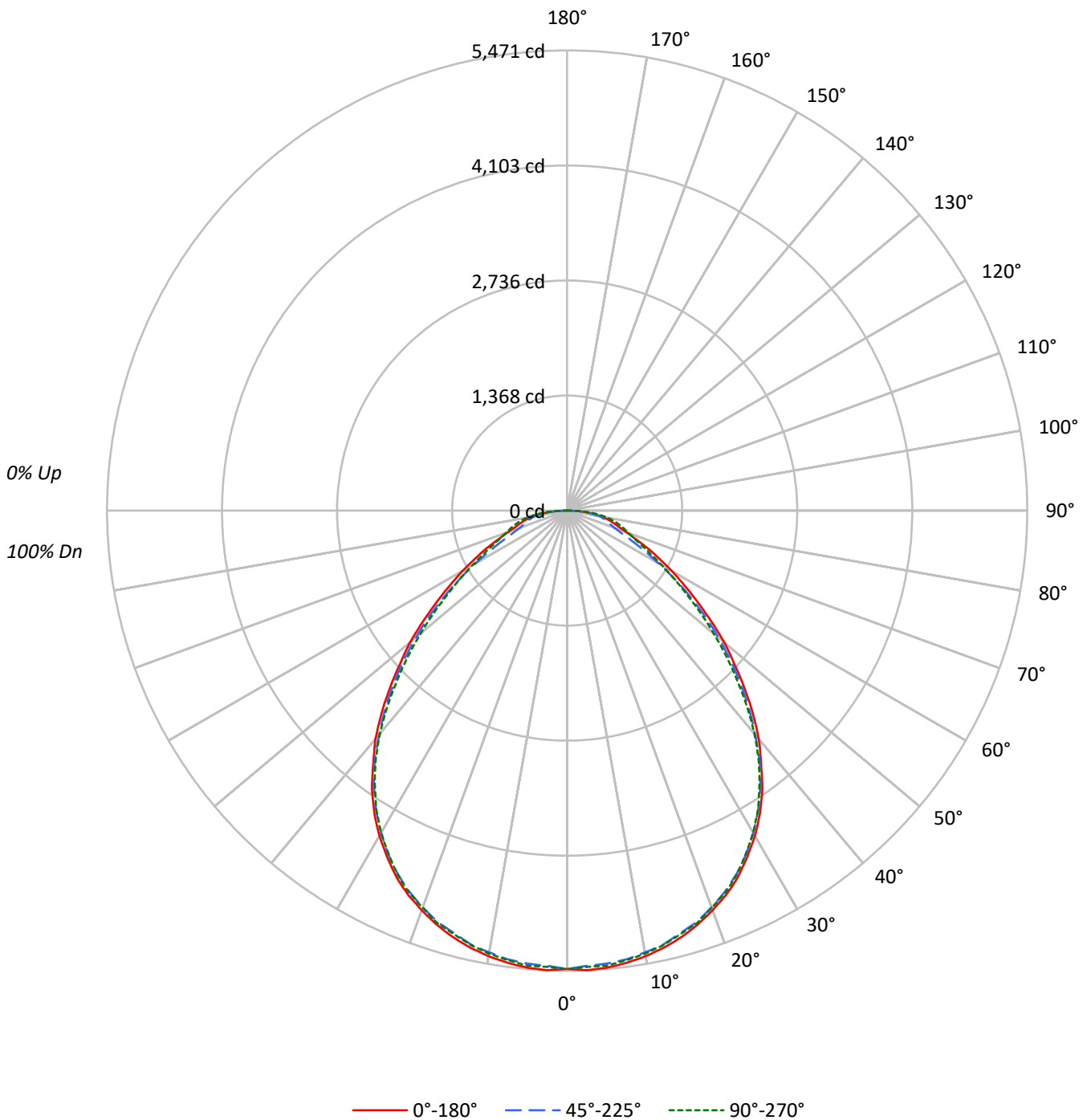
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7331	7331	7331
5°	7366	7302	7333
10°	7350	7286	7306
15°	7313	7242	7259
20°	7239	7188	7192
25°	7135	7077	7088
30°	6937	6874	6870
35°	6645	6580	6547
40°	6227	6105	6079
45°	5668	5555	5448
50°	5104	4923	4762
55°	4428	4188	4062
60°	3867	3376	3494
65°	3346	2683	3106
70°	2951	2353	3033
75°	2963	2558	3318
80°	3247	3039	3756
85°	3423	3308	4306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.0	4.2
10°-20°	1471.5	12.0
20°-30°	2193.9	17.8
30°-40°	2494.0	20.3
40°-50°	2247.6	18.3
50°-60°	1619.0	13.2
60°-70°	941.7	7.6
70°-80°	576.2	4.7
80°-90°	252.2	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°	4180.3	34.0
0°-40°	6674.3	54.2
0°-60°	10540.8	85.6
0°-90°	12310.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12310.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5449	5449	5449	5449	5449	
5°	5454	5416	5406	5417	5429	518
15°	5250	5221	5199	5208	5211	1480
25°	4806	4777	4767	4760	4774	2208
35°	4046	4018	4006	3982	3986	2517
45°	2979	2945	2919	2874	2863	2298
55°	1888	1843	1785	1767	1732	1702
65°	1051	945	843	908	976	1051
75°	570	516	492	560	638	607
85°	222	219	214	291	279	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5448.9	5448.9	5448.9	5448.9	5448.9
2.5°	5470.8	5441.5	5417.2	5418.4	5430.6
5°	5453.7	5416.0	5406.2	5417.2	5429.4
7.5°	5423.3	5388.0	5381.9	5375.8	5390.4
10°	5379.4	5355.1	5333.2	5339.2	5347.8
12.5°	5321.0	5300.3	5284.4	5272.3	5290.5
15°	5250.3	5221.1	5199.2	5207.7	5211.4
17.5°	5161.4	5133.4	5127.3	5122.5	5140.7
20°	5055.5	5038.4	5020.2	5025.0	5022.6
22.5°	4943.4	4917.9	4903.2	4895.9	4915.4
25°	4805.8	4776.6	4766.8	4759.5	4774.1
27.5°	4637.7	4621.9	4608.5	4598.8	4600.0
30°	4464.8	4449.0	4424.6	4417.3	4422.2
32.5°	4266.3	4248.0	4226.1	4204.2	4220.0
35°	4045.8	4017.8	4005.7	3982.5	3986.2
37.5°	3785.2	3773.0	3762.1	3731.6	3741.4
40°	3545.3	3512.4	3475.9	3457.6	3461.3
42.5°	3267.6	3233.5	3204.3	3178.7	3166.5
45°	2979.0	2944.9	2919.3	2874.2	2863.3
47.5°	2691.5	2659.9	2631.9	2596.5	2564.9
50°	2438.2	2379.8	2351.8	2315.2	2275.0
52.5°	2153.2	2119.1	2064.3	2033.9	1997.3
55°	1887.7	1842.7	1785.4	1767.2	1731.8
57.5°	1649.0	1600.3	1516.3	1509.0	1507.8
60°	1437.1	1371.3	1254.4	1263.0	1298.3
62.5°	1231.3	1137.5	1031.6	1069.3	1121.7
65°	1051.0	945.1	842.8	908.5	975.5
67.5°	878.1	783.1	696.6	784.3	855.0
70°	750.2	671.1	598.0	691.8	770.9
72.5°	643.0	582.2	534.7	619.9	705.2
75°	570.0	516.4	492.0	560.2	638.2
77.5°	501.8	454.3	447.0	507.9	565.1
80°	419.0	386.1	392.2	454.3	484.7
82.5°	319.1	309.3	310.6	388.5	394.6
85°	221.7	219.2	214.3	291.1	278.9
87.5°	112.0	114.5	113.3	165.6	148.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)