

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: P475802

Luminaire Tested: **24GR-LD5-120-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475802  
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-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12298.8 lumens  
Efficiency: N/A  
Efficacy: 151.1 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

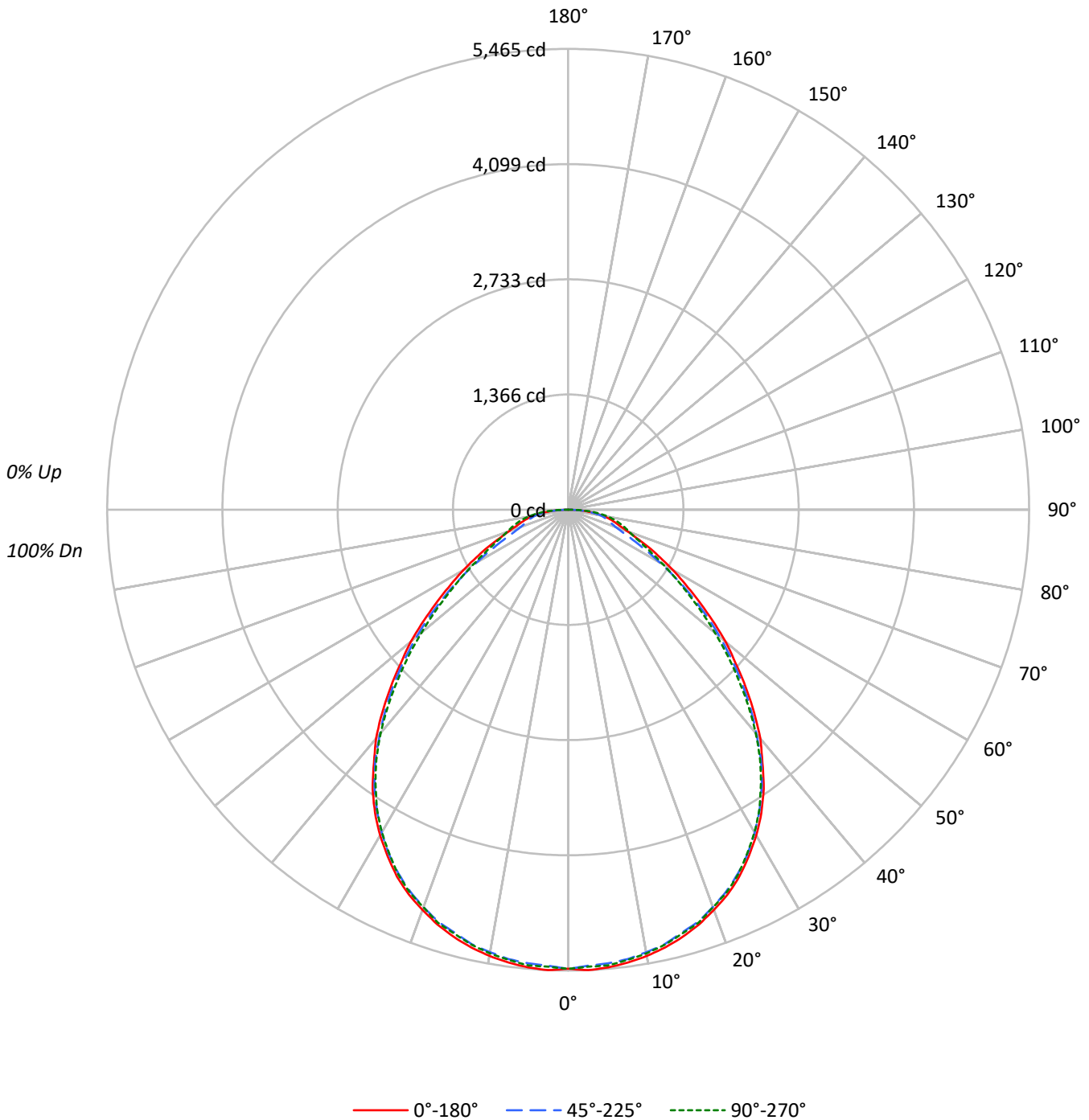
Input Watts (W): 81.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7324	7324	7324
5°	7359	7295	7326
10°	7342	7279	7299
15°	7306	7235	7252
20°	7232	7181	7185
25°	7128	7070	7081
30°	6930	6868	6864
35°	6639	6573	6541
40°	6221	6099	6073
45°	5663	5549	5443
50°	5099	4918	4757
55°	4424	4184	4058
60°	3863	3372	3490
65°	3343	2681	3103
70°	2948	2350	3030
75°	2960	2555	3315
80°	3243	3036	3752
85°	3418	3305	4301



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.5	4.2
10°-20°	1470.0	12.0
20°-30°	2191.7	17.8
30°-40°	2491.5	20.3
40°-50°	2245.4	18.3
50°-60°	1617.4	13.2
60°-70°	940.8	7.6
70°-80°	575.6	4.7
80°-90°	251.9	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°	4176.2	34.0
0°-40°	6667.7	54.2
0°-60°	10530.5	85.6
0°-90°	12298.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12298.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5444	5444	5444	5444	5444	
5°	5448	5411	5401	5412	5424	518
15°	5245	5216	5194	5203	5206	1479
25°	4801	4772	4762	4755	4770	2205
35°	4042	4014	4002	3979	3982	2515
45°	2976	2942	2916	2871	2860	2296
55°	1886	1841	1784	1765	1730	1701
65°	1050	944	842	908	975	1050
75°	569	516	492	560	638	606
85°	221	219	214	291	279	234
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5443.5	5443.5	5443.5	5443.5	5443.5
2.5°	5465.4	5436.2	5411.9	5413.1	5425.3
5°	5448.4	5410.7	5400.9	5411.9	5424.0
7.5°	5418.0	5382.7	5376.6	5370.5	5385.1
10°	5374.2	5349.8	5327.9	5334.0	5342.5
12.5°	5315.8	5295.1	5279.3	5267.1	5285.3
15°	5245.2	5216.0	5194.1	5202.6	5206.3
17.5°	5156.4	5128.4	5122.3	5117.4	5135.7
20°	5050.5	5033.5	5015.2	5020.1	5017.7
22.5°	4938.6	4913.0	4898.4	4891.1	4910.6
25°	4801.1	4771.9	4762.2	4754.9	4769.5
27.5°	4633.2	4617.4	4604.0	4594.3	4595.5
30°	4460.4	4444.6	4420.3	4413.0	4417.8
32.5°	4262.1	4243.8	4221.9	4200.0	4215.9
35°	4041.9	4013.9	4001.7	3978.6	3982.3
37.5°	3781.5	3769.3	3758.4	3728.0	3737.7
40°	3541.8	3509.0	3472.5	3454.2	3457.9
42.5°	3264.4	3230.3	3201.1	3175.6	3163.4
45°	2976.0	2942.0	2916.4	2871.4	2860.5
47.5°	2688.9	2657.3	2629.3	2594.0	2562.4
50°	2435.8	2377.4	2349.4	2312.9	2272.8
52.5°	2151.1	2117.1	2062.3	2031.9	1995.4
55°	1885.9	1840.9	1783.7	1765.4	1730.1
57.5°	1647.4	1598.7	1514.8	1507.5	1506.3
60°	1435.7	1370.0	1253.2	1261.7	1297.0
62.5°	1230.1	1136.4	1030.5	1068.3	1120.6
65°	1050.0	944.2	842.0	907.7	974.6
67.5°	877.2	782.3	696.0	783.6	854.1
70°	749.5	670.4	597.4	691.1	770.2
72.5°	642.4	581.6	534.1	619.3	704.5
75°	569.4	515.9	491.5	559.7	637.6
77.5°	501.3	453.8	446.5	507.4	564.5
80°	418.5	385.7	391.8	453.8	484.2
82.5°	318.8	309.0	310.3	388.1	394.2
85°	221.4	219.0	214.1	290.8	278.6
87.5°	111.9	114.4	113.2	165.5	148.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)