

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: P475804

Luminaire Tested: **24GR-LD5-150-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475804  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-150-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: 15430.6 lumens  
Efficiency: N/A  
Efficacy: 149.2 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

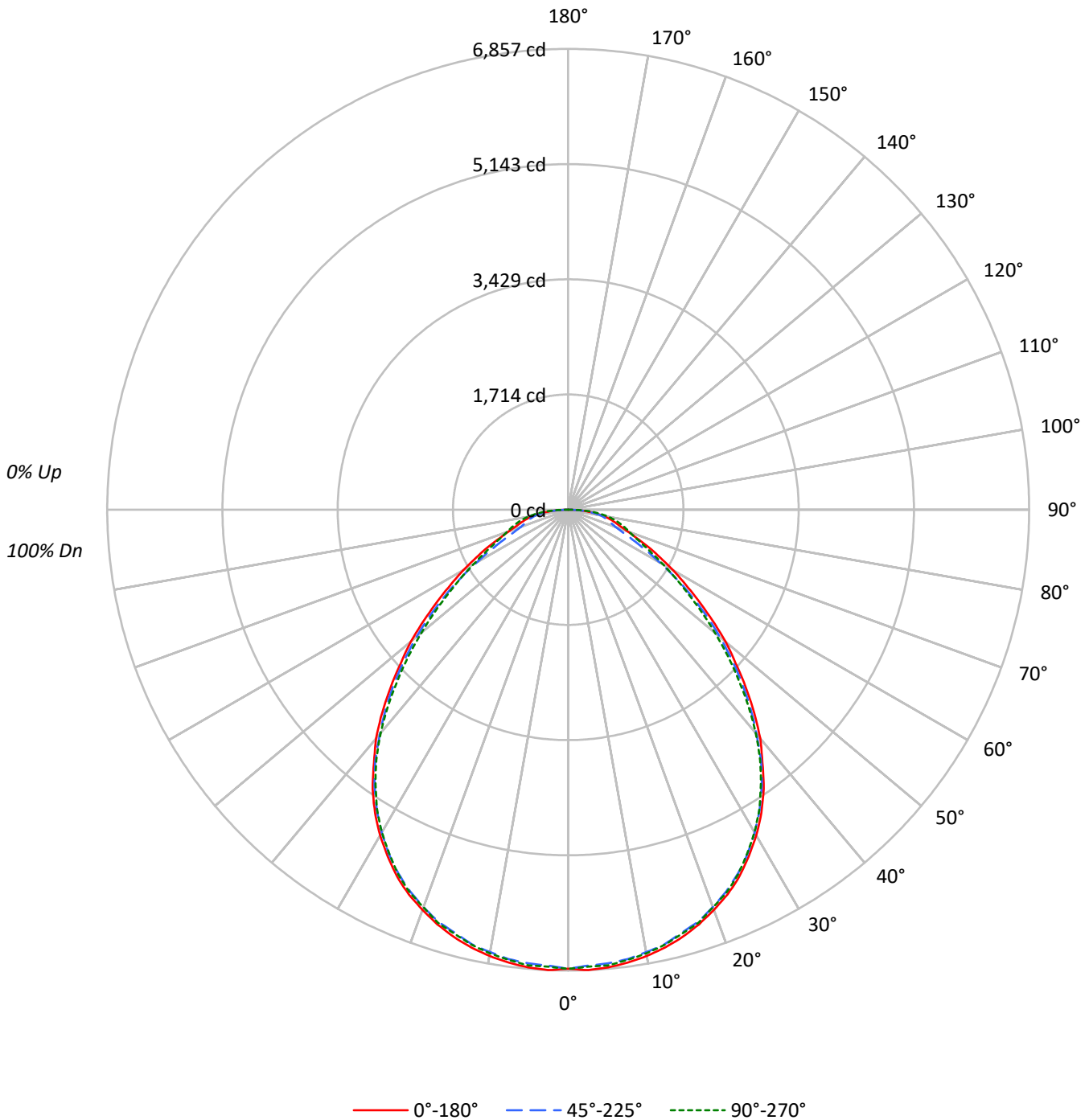
Input Watts (W): 103.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9189	9189	9189
5°	9232	9152	9191
10°	9212	9133	9158
15°	9167	9077	9099
20°	9073	9010	9014
25°	8943	8870	8884
30°	8694	8616	8612
35°	8329	8247	8207
40°	7805	7652	7620
45°	7105	6963	6829
50°	6397	6170	5969
55°	5550	5250	5092
60°	4847	4231	4379
65°	4194	3363	3893
70°	3699	2948	3801
75°	3714	3206	4158
80°	4069	3808	4708
85°	4289	4148	5397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.5	4.2
10°-20°	1844.3	12.0
20°-30°	2749.8	17.8
30°-40°	3126.0	20.3
40°-50°	2817.2	18.3
50°-60°	2029.2	13.2
60°-70°	1180.3	7.6
70°-80°	722.2	4.7
80°-90°	316.1	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°	5239.6	34.0
0°-40°	8365.6	54.2
0°-60°	13212.0	85.6
0°-90°	15430.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15430.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6830	6830	6830	6830	6830	
5°	6836	6788	6776	6790	6805	649
15°	6581	6544	6517	6527	6532	1855
25°	6024	5987	5975	5966	5984	2767
35°	5071	5036	5021	4992	4996	3155
45°	3734	3691	3659	3603	3589	2880
55°	2366	2310	2238	2215	2171	2134
65°	1317	1185	1056	1139	1223	1318
75°	714	647	617	702	800	761
85°	278	275	269	365	350	294
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6829.6	6829.6	6829.6	6829.6	6829.6
2.5°	6857.1	6820.5	6789.9	6791.5	6806.7
5°	6835.7	6788.4	6776.2	6789.9	6805.2
7.5°	6797.6	6753.3	6745.7	6738.0	6756.4
10°	6742.6	6712.1	6684.6	6692.2	6702.9
12.5°	6669.4	6643.4	6623.6	6608.3	6631.2
15°	6580.8	6544.2	6516.7	6527.4	6532.0
17.5°	6469.4	6434.3	6426.6	6420.5	6443.4
20°	6336.6	6315.2	6292.3	6298.4	6295.4
22.5°	6196.1	6164.1	6145.8	6136.6	6161.0
25°	6023.6	5987.0	5974.8	5965.6	5983.9
27.5°	5813.0	5793.1	5776.3	5764.1	5765.7
30°	5596.2	5576.4	5545.8	5536.7	5542.8
32.5°	5347.4	5324.5	5297.0	5269.5	5289.4
35°	5071.1	5036.0	5020.7	4991.7	4996.3
37.5°	4744.4	4729.1	4715.4	4677.2	4689.5
40°	4443.7	4402.5	4356.7	4333.8	4338.4
42.5°	4095.6	4052.9	4016.3	3984.2	3968.9
45°	3733.9	3691.1	3659.1	3602.6	3588.8
47.5°	3373.6	3333.9	3298.8	3254.5	3214.8
50°	3056.1	2982.8	2947.7	2901.9	2851.5
52.5°	2698.9	2656.1	2587.4	2549.3	2503.5
55°	2366.1	2309.6	2237.9	2215.0	2170.7
57.5°	2066.9	2005.8	1900.5	1891.4	1889.8
60°	1801.3	1718.9	1572.3	1583.0	1627.3
62.5°	1543.3	1425.8	1293.0	1340.3	1405.9
65°	1317.4	1184.6	1056.3	1138.8	1222.7
67.5°	1100.6	981.6	873.2	983.1	1071.6
70°	940.3	841.1	749.5	867.1	966.3
72.5°	806.0	729.7	670.1	777.0	883.9
75°	714.4	647.2	616.7	702.2	799.9
77.5°	628.9	569.4	560.2	636.6	708.3
80°	525.1	483.9	491.5	569.4	607.6
82.5°	399.9	387.7	389.3	487.0	494.6
85°	277.8	274.8	268.7	364.8	349.6
87.5°	140.4	143.5	142.0	207.6	186.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)