

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: P475819

Luminaire Tested: **24GR-LD5-150-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475819  
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-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: 15445.7 lumens  
Efficiency: N/A  
Efficacy: 149.4 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

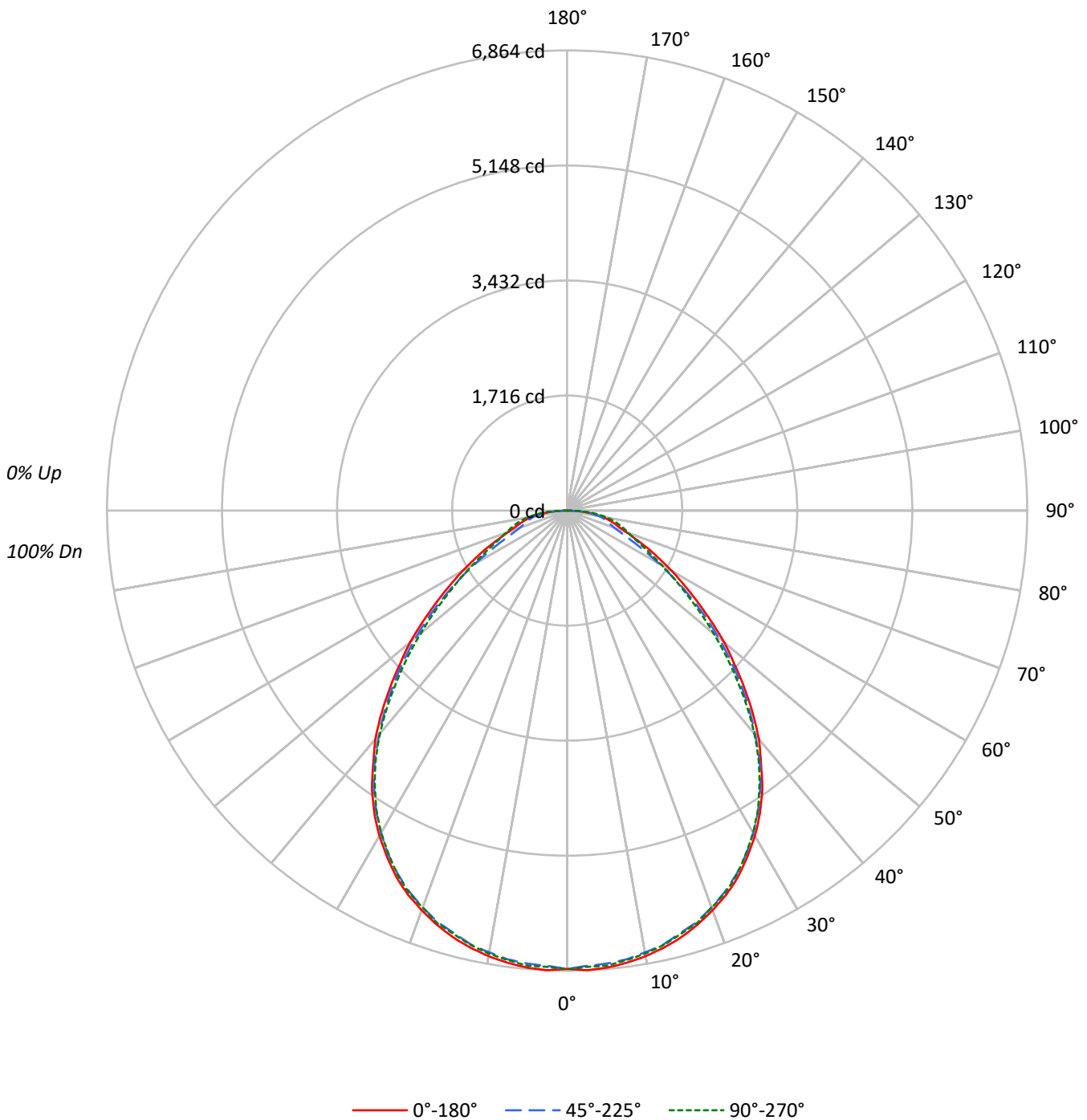
Input Watts (W): 103.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475819

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475819

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L850-CD1-U

**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°	9198	9198	9198
5°	9242	9161	9200
10°	9221	9142	9167
15°	9176	9086	9108
20°	9082	9018	9023
25°	8951	8879	8892
30°	8703	8625	8620
35°	8338	8255	8215
40°	7813	7660	7627
45°	7112	6969	6836
50°	6403	6176	5975
55°	5556	5255	5097
60°	4852	4235	4383
65°	4198	3366	3897
70°	3703	2952	3805
75°	3717	3209	4162
80°	4073	3812	4712
85°	4293	4151	5402



TEST NUMBER: P475819

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.1	4.2
10°-20°	1846.2	12.0
20°-30°	2752.5	17.8
30°-40°	3129.0	20.3
40°-50°	2820.0	18.3
50°-60°	2031.2	13.2
60°-70°	1181.5	7.6
70°-80°	722.9	4.7
80°-90°	316.4	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°	5244.8	34.0
0°-40°	8373.8	54.2
0°-60°	13224.9	85.6
0°-90°	15445.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15445.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6836	6836	6836	6836	6836	
5°	6842	6795	6783	6797	6812	650
15°	6587	6551	6523	6534	6538	1857
25°	6030	5993	5981	5972	5990	2770
35°	5076	5041	5026	4997	5001	3158
45°	3738	3695	3663	3606	3592	2883
55°	2368	2312	2240	2217	2173	2136
65°	1319	1186	1057	1140	1224	1319
75°	715	648	617	703	801	761
85°	278	275	269	365	350	294
90°	0	0	0	0	0	



TEST NUMBER: P475819

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6836.3	6836.3	6836.3	6836.3	6836.3
2.5°	6863.8	6827.2	6796.6	6798.1	6813.4
5°	6842.5	6795.1	6782.9	6796.6	6811.9
7.5°	6804.3	6759.9	6752.3	6744.7	6763.0
10°	6749.2	6718.7	6691.2	6698.8	6709.5
12.5°	6675.9	6649.9	6630.1	6614.8	6637.7
15°	6587.3	6550.6	6523.1	6533.8	6538.4
17.5°	6475.7	6440.6	6432.9	6426.8	6449.8
20°	6342.8	6321.4	6298.5	6304.6	6301.5
22.5°	6202.2	6170.1	6151.8	6142.6	6167.1
25°	6029.5	5992.9	5980.7	5971.5	5989.8
27.5°	5818.7	5798.8	5782.0	5769.8	5771.3
30°	5601.7	5581.8	5551.3	5542.1	5548.2
32.5°	5352.6	5329.7	5302.2	5274.7	5294.6
35°	5076.1	5040.9	5025.6	4996.6	5001.2
37.5°	4749.1	4733.8	4720.0	4681.8	4694.1
40°	4448.1	4406.8	4361.0	4338.0	4342.6
42.5°	4099.7	4056.9	4020.2	3988.1	3972.8
45°	3737.5	3694.7	3662.7	3606.1	3592.4
47.5°	3376.9	3337.2	3302.0	3257.7	3218.0
50°	3059.1	2985.7	2950.6	2904.8	2854.3
52.5°	2701.5	2658.7	2590.0	2551.8	2505.9
55°	2368.4	2311.9	2240.1	2217.1	2172.8
57.5°	2068.9	2007.8	1902.4	1893.2	1891.7
60°	1803.1	1720.5	1573.9	1584.6	1628.9
62.5°	1544.8	1427.2	1294.2	1341.6	1407.3
65°	1318.7	1185.7	1057.4	1139.9	1223.9
67.5°	1101.7	982.5	874.0	984.0	1072.7
70°	941.3	841.9	750.3	867.9	967.2
72.5°	806.8	730.4	670.8	777.8	884.7
75°	715.1	647.9	617.3	702.9	800.7
77.5°	629.5	569.9	560.8	637.2	709.0
80°	525.6	484.4	492.0	569.9	608.1
82.5°	400.3	388.1	389.6	487.4	495.1
85°	278.1	275.0	268.9	365.2	349.9
87.5°	140.6	143.6	142.1	207.8	186.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)