

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: P475784

Luminaire Tested: **24GR-LD5-85-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475784  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-85-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: 8573.5 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

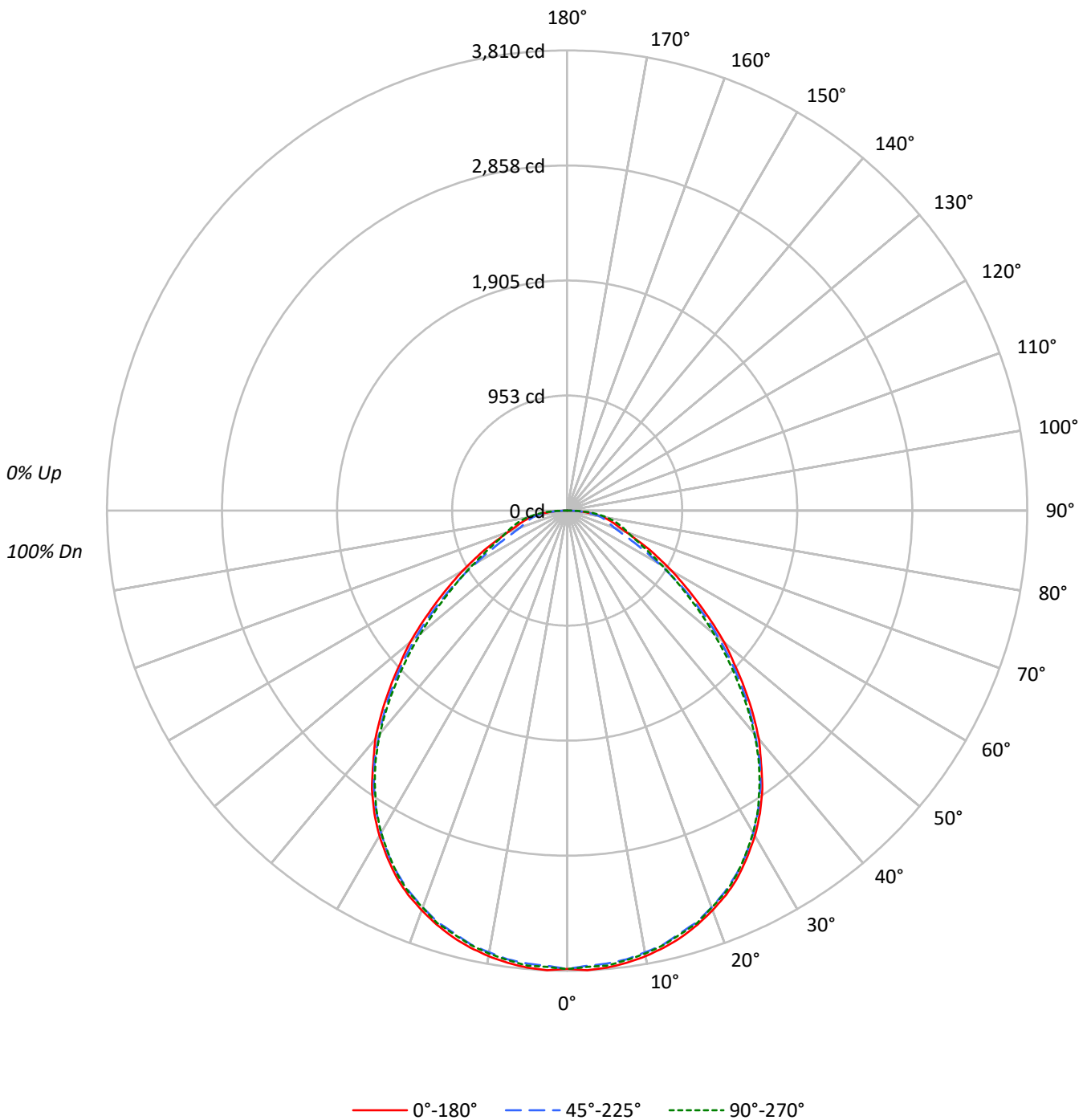
Input Watts (W): 59.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5106	5106	5106
5°	5130	5085	5107
10°	5118	5074	5088
15°	5093	5044	5055
20°	5041	5006	5008
25°	4969	4928	4936
30°	4831	4787	4785
35°	4628	4582	4560
40°	4337	4252	4234
45°	3948	3868	3794
50°	3554	3428	3316
55°	3084	2917	2829
60°	2693	2351	2433
65°	2330	1869	2163
70°	2055	1638	2112
75°	2063	1782	2310
80°	2261	2116	2616
85°	2384	2305	2998



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.6	4.2
10°-20°	1024.7	12.0
20°-30°	1527.8	17.8
30°-40°	1736.8	20.3
40°-50°	1565.3	18.3
50°-60°	1127.5	13.2
60°-70°	655.8	7.6
70°-80°	401.3	4.7
80°-90°	175.6	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°	2911.2	34.0
0°-40°	4648.0	54.2
0°-60°	7340.8	85.6
0°-90°	8573.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8573.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3795	3795	3795	3795	3795	
5°	3798	3772	3765	3773	3781	361
15°	3656	3636	3621	3627	3629	1031
25°	3347	3326	3320	3315	3325	1537
35°	2818	2798	2790	2774	2776	1753
45°	2075	2051	2033	2002	1994	1600
55°	1315	1283	1243	1231	1206	1185
65°	732	658	587	633	679	732
75°	397	360	343	390	444	423
85°	154	153	149	203	194	163
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3794.6	3794.6	3794.6	3794.6	3794.6
2.5°	3809.9	3789.6	3772.6	3773.4	3781.9
5°	3798.0	3771.7	3765.0	3772.6	3781.1
7.5°	3776.8	3752.2	3748.0	3743.8	3753.9
10°	3746.3	3729.3	3714.1	3718.3	3724.3
12.5°	3705.6	3691.2	3680.1	3671.7	3684.4
15°	3656.4	3636.0	3620.8	3626.7	3629.3
17.5°	3594.5	3575.0	3570.7	3567.3	3580.1
20°	3520.7	3508.8	3496.1	3499.5	3497.8
22.5°	3442.7	3424.9	3414.7	3409.6	3423.2
25°	3346.8	3326.5	3319.7	3314.6	3324.8
27.5°	3229.8	3218.8	3209.4	3202.6	3203.5
30°	3109.3	3098.3	3081.3	3076.3	3079.7
32.5°	2971.1	2958.4	2943.1	2927.8	2938.9
35°	2817.6	2798.1	2789.6	2773.5	2776.0
37.5°	2636.1	2627.6	2620.0	2598.7	2605.5
40°	2469.0	2446.1	2420.6	2407.9	2410.5
42.5°	2275.6	2251.9	2231.5	2213.7	2205.2
45°	2074.6	2050.8	2033.0	2001.6	1994.0
47.5°	1874.4	1852.4	1832.9	1808.3	1786.2
50°	1698.0	1657.3	1637.8	1612.3	1584.4
52.5°	1499.5	1475.8	1437.6	1416.4	1391.0
55°	1314.6	1283.3	1243.4	1230.7	1206.1
57.5°	1148.4	1114.5	1056.0	1050.9	1050.0
60°	1000.8	955.0	873.6	879.5	904.1
62.5°	857.5	792.2	718.4	744.7	781.2
65°	732.0	658.2	586.9	632.7	679.4
67.5°	611.5	545.4	485.1	546.2	595.4
70°	522.5	467.3	416.4	481.8	536.9
72.5°	447.8	405.4	372.3	431.7	491.1
75°	396.9	359.6	342.7	390.2	444.4
77.5°	349.4	316.4	311.3	353.7	393.5
80°	291.8	268.9	273.1	316.4	337.6
82.5°	222.2	215.4	216.3	270.6	274.8
85°	154.4	152.7	149.3	202.7	194.2
87.5°	78.0	79.7	78.9	115.3	103.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)