

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: P475813

Luminaire Tested: **24GR-LD5-72-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475813
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-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: 7286.6 lumens
Efficiency: N/A
Efficacy: 149.6 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

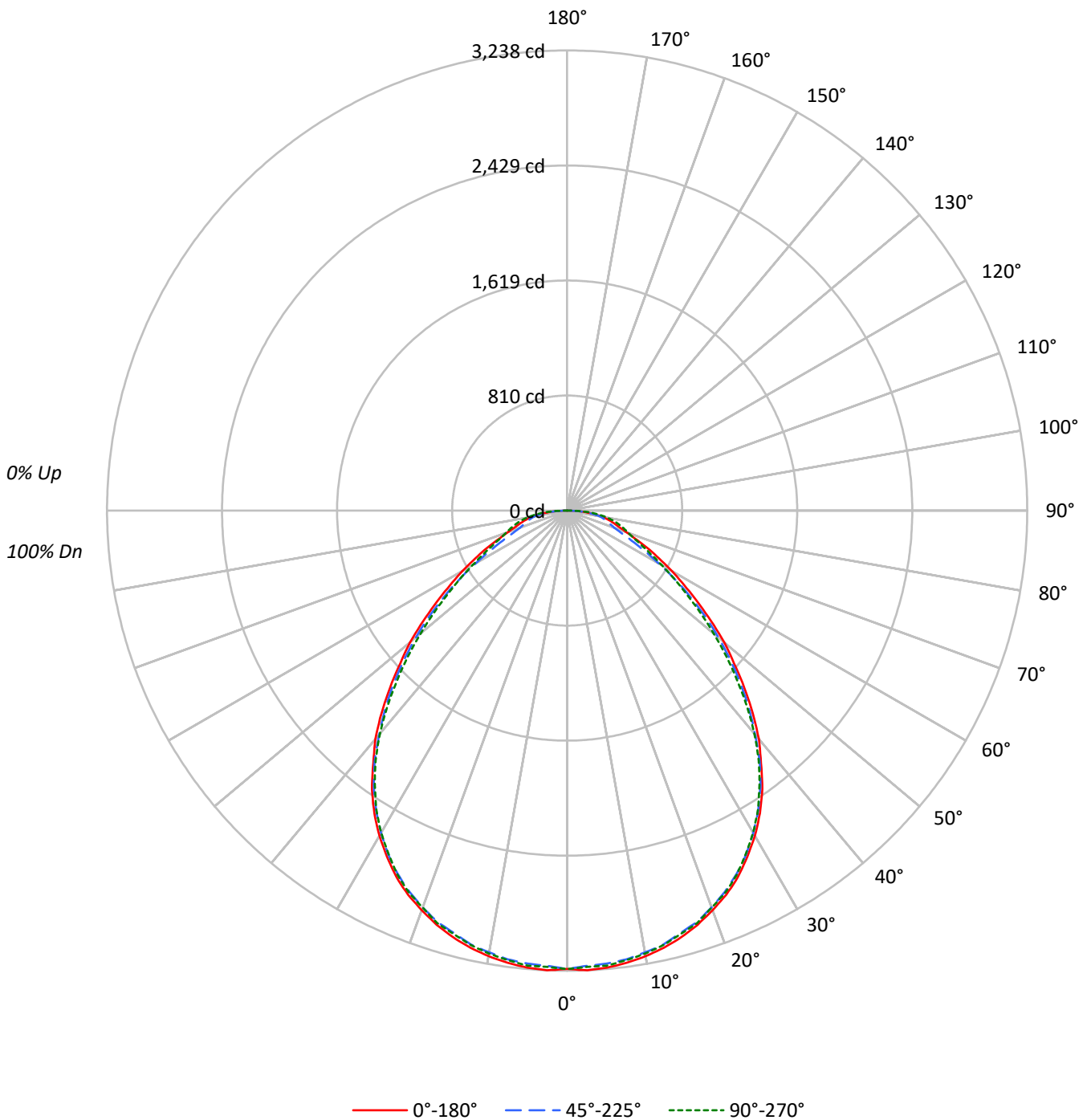
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4339	4339	4339
5°	4360	4322	4340
10°	4350	4313	4324
15°	4329	4287	4297
20°	4284	4254	4257
25°	4223	4189	4195
30°	4106	4069	4066
35°	3933	3894	3875
40°	3686	3613	3598
45°	3355	3288	3225
50°	3021	2914	2819
55°	2621	2479	2404
60°	2289	1998	2068
65°	1981	1588	1838
70°	1747	1392	1795
75°	1754	1514	1964
80°	1922	1798	2223
85°	2025	1959	2549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	4.2
10°-20°	870.9	12.0
20°-30°	1298.5	17.8
30°-40°	1476.1	20.3
40°-50°	1330.3	18.3
50°-60°	958.2	13.2
60°-70°	557.4	7.6
70°-80°	341.0	4.7
80°-90°	149.3	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°	2474.2	34.0
0°-40°	3950.4	54.2
0°-60°	6238.9	85.6
0°-90°	7286.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7286.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3225	3225	3225	3225	3225	
5°	3228	3206	3200	3206	3214	307
15°	3108	3090	3077	3082	3084	876
25°	2844	2827	2821	2817	2826	1307
35°	2395	2378	2371	2357	2359	1490
45°	1763	1743	1728	1701	1695	1360
55°	1117	1091	1057	1046	1025	1007
65°	622	559	499	538	577	622
75°	337	306	291	332	378	359
85°	131	130	127	172	165	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3225.1	3225.1	3225.1	3225.1	3225.1
2.5°	3238.0	3220.7	3206.3	3207.1	3214.3
5°	3228.0	3205.6	3199.8	3206.3	3213.5
7.5°	3209.9	3189.0	3185.4	3181.8	3190.5
10°	3184.0	3169.6	3156.6	3160.2	3165.2
12.5°	3149.4	3137.1	3127.8	3120.5	3131.4
15°	3107.6	3090.3	3077.3	3082.3	3084.5
17.5°	3055.0	3038.4	3034.8	3031.9	3042.7
20°	2992.2	2982.1	2971.3	2974.2	2972.8
22.5°	2925.9	2910.8	2902.1	2897.8	2909.3
25°	2844.5	2827.2	2821.4	2817.1	2825.7
27.5°	2745.0	2735.6	2727.7	2721.9	2722.6
30°	2642.6	2633.3	2618.8	2614.5	2617.4
32.5°	2525.1	2514.3	2501.3	2488.4	2497.7
35°	2394.7	2378.1	2370.9	2357.2	2359.3
37.5°	2240.4	2233.2	2226.7	2208.7	2214.4
40°	2098.4	2078.9	2057.3	2046.5	2048.6
42.5°	1934.0	1913.9	1896.6	1881.4	1874.2
45°	1763.2	1743.0	1727.9	1701.2	1694.7
47.5°	1593.1	1574.3	1557.8	1536.8	1518.1
50°	1443.1	1408.5	1392.0	1370.3	1346.5
52.5°	1274.5	1254.3	1221.8	1203.8	1182.2
55°	1117.3	1090.6	1056.8	1046.0	1025.0
57.5°	976.0	947.2	897.5	893.1	892.4
60°	850.6	811.7	742.5	747.5	768.4
62.5°	728.8	673.3	610.6	632.9	663.9
65°	622.1	559.4	498.8	537.8	577.4
67.5°	519.7	463.5	412.3	464.2	506.0
70°	444.0	397.2	353.9	409.4	456.3
72.5°	380.6	344.6	316.5	366.9	417.4
75°	337.4	305.6	291.2	331.6	377.7
77.5°	297.0	268.9	264.6	300.6	334.5
80°	248.0	228.5	232.1	268.9	286.9
82.5°	188.9	183.1	183.8	230.0	233.6
85°	131.2	129.8	126.9	172.3	165.1
87.5°	66.3	67.8	67.0	98.0	87.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)