

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: P475591

Luminaire Tested: **24GR-LD5-100-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475591  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-100-F125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9692.2 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

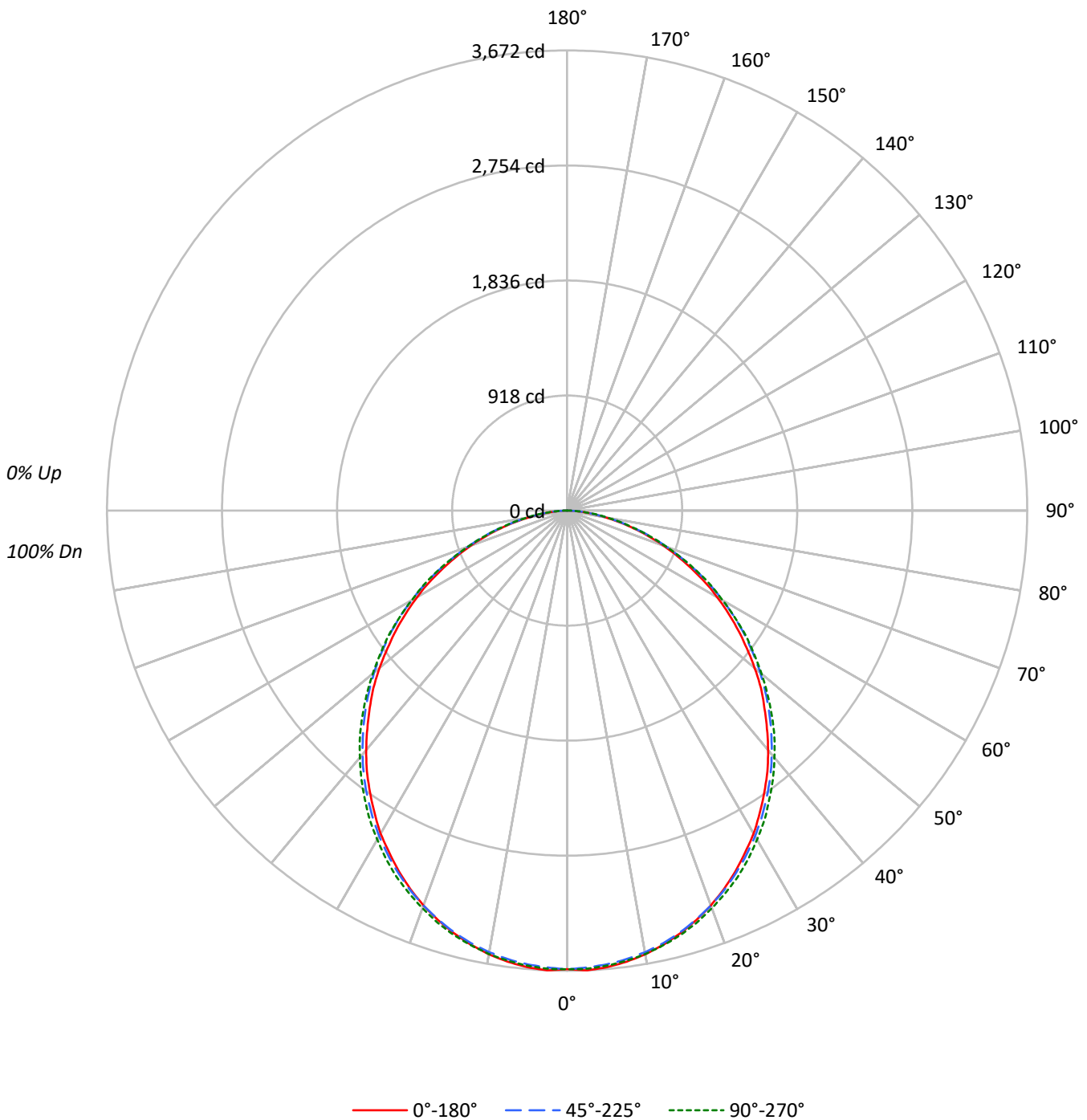
Input Watts (W): 67.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	4925	4925	4925
5°	4940	4909	4923
10°	4912	4888	4909
15°	4863	4852	4882
20°	4800	4802	4834
25°	4717	4736	4786
30°	4625	4660	4708
35°	4506	4567	4621
40°	4382	4461	4520
45°	4237	4341	4396
50°	4090	4209	4238
55°	3913	4054	4083
60°	3726	3853	3858
65°	3481	3616	3635
70°	3225	3316	3305
75°	2865	2968	2976
80°	2397	2482	2576
85°	1798	1934	2002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.8	3.6
10°-20°	984.0	10.2
20°-30°	1470.8	15.2
30°-40°	1737.7	17.9
40°-50°	1754.2	18.1
50°-60°	1530.9	15.8
60°-70°	1116.1	11.5
70°-80°	601.9	6.2
80°-90°	150.7	1.6
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°	2800.6	28.9
0°-40°	4538.4	46.8
0°-60°	7823.5	80.7
0°-90°	9692.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9692.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3660	3660	3660	3660	3660	
5°	3658	3644	3634	3638	3645	347
15°	3491	3484	3483	3492	3505	984
25°	3177	3178	3190	3210	3224	1463
35°	2743	2751	2781	2808	2813	1716
45°	2227	2243	2281	2310	2310	1719
55°	1668	1688	1728	1734	1741	1491
65°	1093	1117	1136	1138	1142	1086
75°	551	557	571	573	572	586
85°	116	119	125	131	130	142
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3660.3	3660.3	3660.3	3660.3	3660.3
2.5°	3672.4	3659.2	3648.8	3650.9	3659.7
5°	3657.5	3644.4	3634.5	3637.8	3644.9
7.5°	3631.2	3619.1	3611.4	3614.7	3624.0
10°	3594.9	3585.0	3577.9	3582.8	3592.7
12.5°	3548.8	3538.9	3536.1	3543.3	3552.1
15°	3491.1	3483.9	3483.4	3491.6	3504.8
17.5°	3426.2	3419.1	3422.9	3433.9	3445.5
20°	3352.6	3346.0	3353.7	3368.5	3376.2
22.5°	3268.5	3263.1	3276.8	3292.2	3302.1
25°	3177.3	3177.9	3190.0	3210.3	3223.5
27.5°	3076.2	3080.1	3098.2	3118.0	3131.2
30°	2976.8	2973.5	2999.3	3020.8	3030.6
32.5°	2861.4	2863.1	2893.3	2915.3	2930.1
35°	2743.3	2751.0	2780.7	2807.6	2813.1
37.5°	2624.1	2629.6	2665.3	2691.6	2698.8
40°	2495.0	2504.8	2540.0	2564.7	2573.5
42.5°	2360.3	2373.0	2410.9	2436.7	2448.3
45°	2226.8	2242.8	2281.2	2309.8	2310.3
47.5°	2097.7	2109.3	2146.6	2171.9	2169.1
50°	1953.8	1970.8	2010.9	2026.3	2024.6
52.5°	1806.5	1832.3	1869.2	1881.2	1879.6
55°	1668.1	1688.4	1728.0	1734.5	1740.6
57.5°	1524.7	1542.2	1585.1	1587.8	1586.7
60°	1384.6	1400.5	1431.8	1439.5	1433.5
62.5°	1243.4	1259.3	1287.3	1295.0	1293.9
65°	1093.4	1117.0	1135.7	1137.9	1141.7
67.5°	953.8	968.6	986.8	990.1	987.3
70°	819.7	832.4	842.8	845.0	840.1
72.5°	681.3	692.8	707.7	710.4	704.9
75°	551.1	556.6	570.9	573.1	572.5
77.5°	424.7	429.1	439.5	447.8	448.9
80°	309.3	311.0	320.3	326.4	332.4
82.5°	204.9	209.3	216.5	222.5	228.0
85°	116.5	119.2	125.3	131.3	129.7
87.5°	45.1	51.1	51.6	57.7	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)