

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: P475605

Luminaire Tested: **24GR-LD5-90-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475605  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-90-F125-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9009.7 lumens  
Efficiency: N/A  
Efficacy: 147.2 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

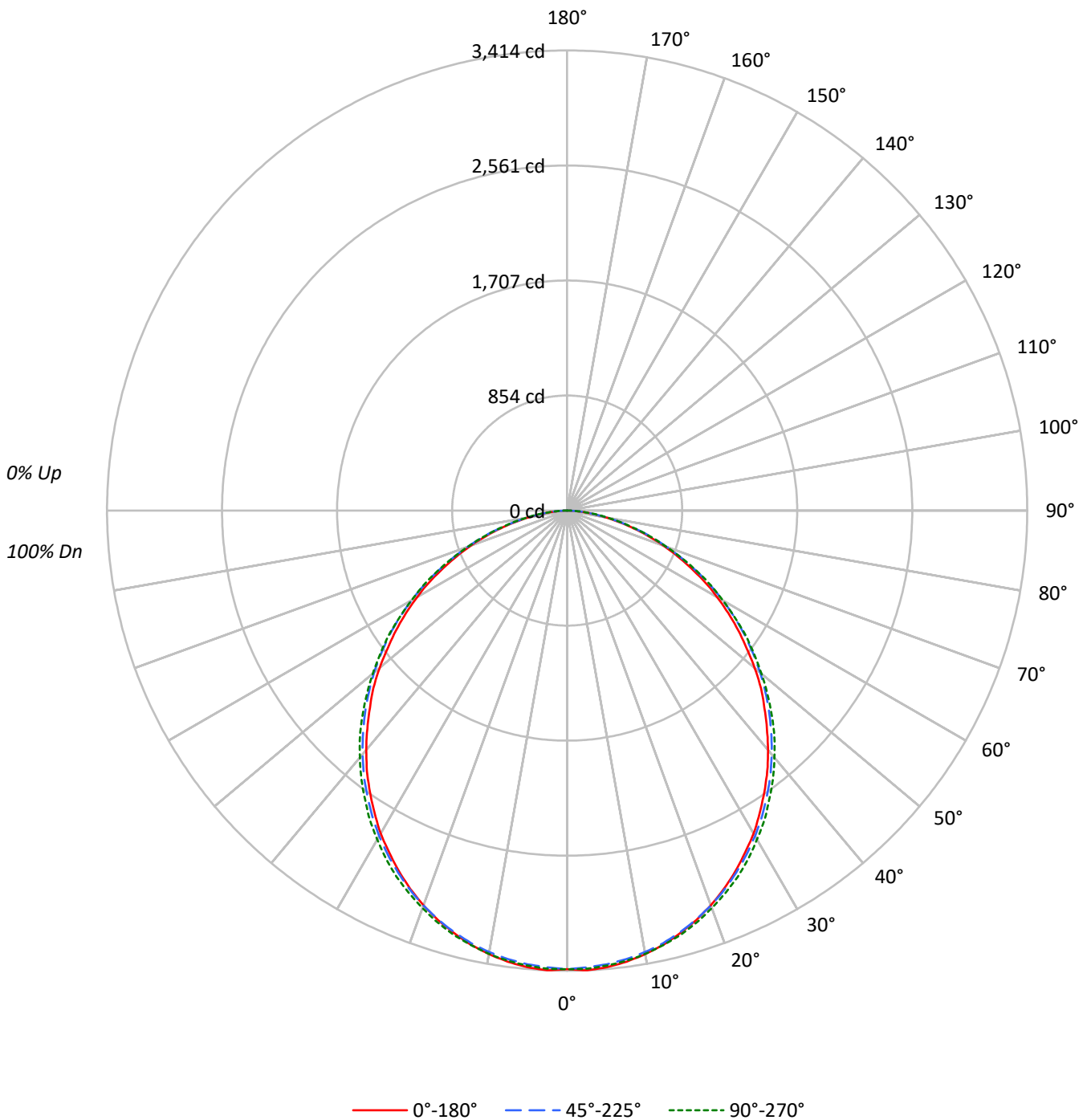
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4578	4578	4578
5°	4592	4563	4576
10°	4566	4544	4563
15°	4521	4511	4538
20°	4462	4464	4494
25°	4385	4402	4449
30°	4299	4332	4377
35°	4189	4246	4295
40°	4074	4147	4202
45°	3939	4035	4087
50°	3802	3913	3940
55°	3637	3768	3795
60°	3464	3582	3586
65°	3236	3361	3379
70°	2998	3082	3072
75°	2663	2759	2767
80°	2228	2307	2394
85°	1672	1797	1860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.5	3.6
10°-20°	914.7	10.2
20°-30°	1367.3	15.2
30°-40°	1615.4	17.9
40°-50°	1630.7	18.1
50°-60°	1423.1	15.8
60°-70°	1037.5	11.5
70°-80°	559.5	6.2
80°-90°	140.1	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°	2603.4	28.9
0°-40°	4218.8	46.8
0°-60°	7272.6	80.7
0°-90°	9009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9009.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3403	3403	3403	3403	3403	
5°	3400	3388	3379	3382	3388	323
15°	3245	3239	3238	3246	3258	915
25°	2954	2954	2965	2984	2996	1360
35°	2550	2557	2585	2610	2615	1595
45°	2070	2085	2121	2147	2148	1598
55°	1551	1570	1606	1612	1618	1386
65°	1016	1038	1056	1058	1061	1010
75°	512	517	531	533	532	544
85°	108	111	116	122	120	132
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3402.6	3402.6	3402.6	3402.6	3402.6
2.5°	3413.8	3401.5	3391.8	3393.9	3402.1
5°	3400.0	3387.8	3378.6	3381.6	3388.3
7.5°	3375.5	3364.3	3357.1	3360.2	3368.9
10°	3341.8	3332.6	3326.0	3330.5	3339.7
12.5°	3298.9	3289.7	3287.1	3293.8	3301.9
15°	3245.3	3238.6	3238.1	3245.8	3258.0
17.5°	3185.0	3178.3	3181.9	3192.1	3202.9
20°	3116.5	3110.4	3117.6	3131.4	3138.5
22.5°	3038.4	3033.3	3046.1	3060.4	3069.6
25°	2953.6	2954.1	2965.4	2984.3	2996.5
27.5°	2859.6	2863.2	2880.1	2898.5	2910.7
30°	2767.2	2764.1	2788.1	2808.1	2817.3
32.5°	2659.9	2661.5	2689.6	2710.0	2723.8
35°	2550.1	2557.3	2584.9	2609.9	2615.0
37.5°	2439.3	2444.4	2477.6	2502.1	2508.8
40°	2319.3	2328.5	2361.2	2384.1	2392.3
42.5°	2194.1	2205.9	2241.1	2265.1	2275.9
45°	2070.0	2084.8	2120.6	2147.2	2147.7
47.5°	1950.0	1960.7	1995.5	2019.0	2016.4
50°	1816.2	1832.0	1869.3	1883.6	1882.1
52.5°	1679.3	1703.3	1737.5	1748.8	1747.2
55°	1550.6	1569.5	1606.3	1612.4	1618.0
57.5°	1417.3	1433.7	1473.5	1476.0	1475.0
60°	1287.1	1301.9	1331.0	1338.1	1332.5
62.5°	1155.8	1170.6	1196.7	1203.8	1202.8
65°	1016.4	1038.3	1055.7	1057.7	1061.3
67.5°	886.6	900.4	917.3	920.4	917.8
70°	762.0	773.8	783.5	785.5	780.9
72.5°	633.3	644.0	657.8	660.4	655.3
75°	512.3	517.4	530.7	532.7	532.2
77.5°	394.8	398.9	408.6	416.3	417.3
80°	287.5	289.1	297.8	303.4	309.0
82.5°	190.5	194.6	201.2	206.9	212.0
85°	108.3	110.8	116.4	122.1	120.5
87.5°	41.9	47.5	48.0	53.6	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)