

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: P475770

Luminaire Tested: **24GR-LD5-90-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475770  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-90-A125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8729.7 lumens  
Efficiency: N/A  
Efficacy: 142.6 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

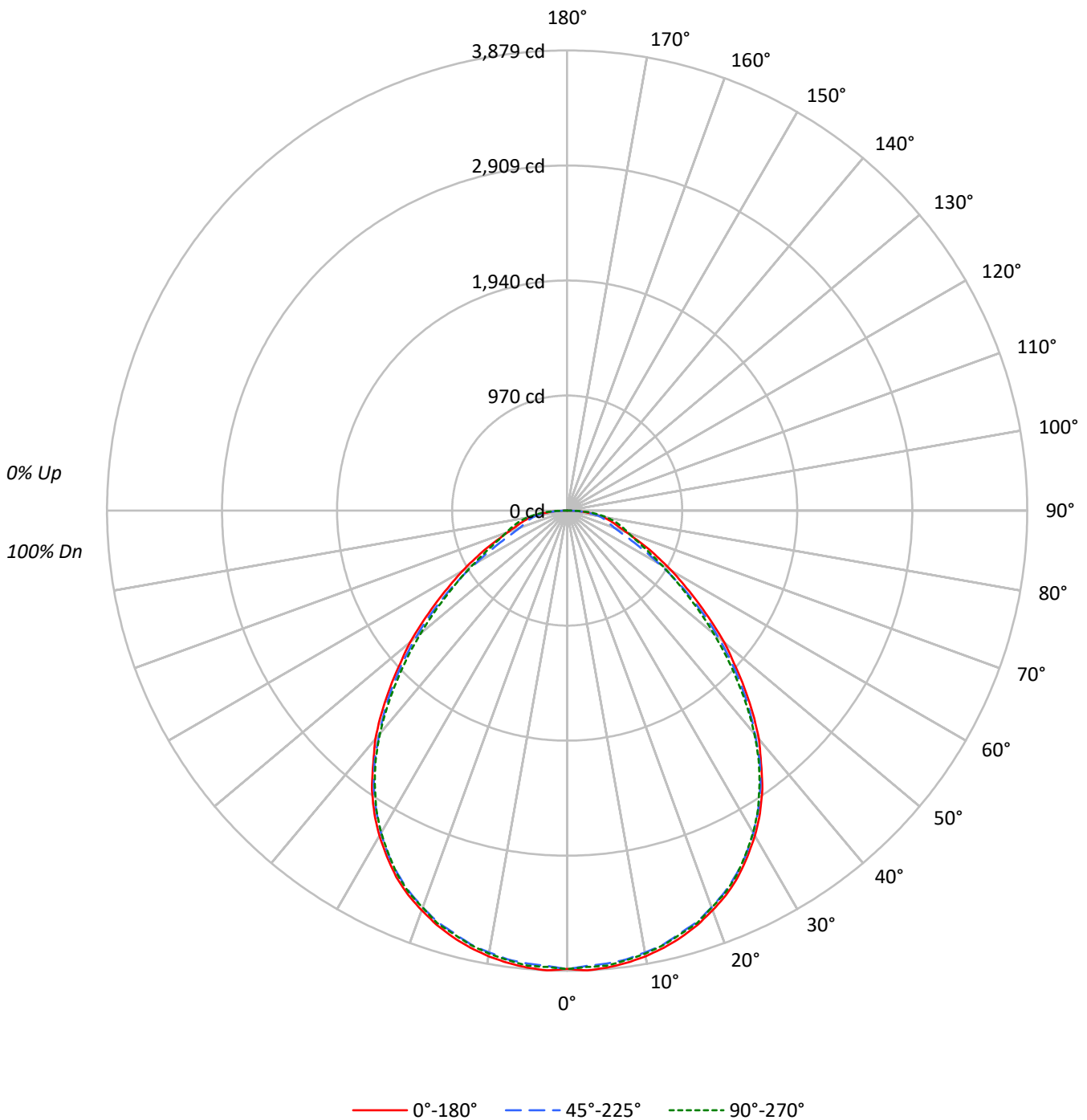
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5199	5199	5199
5°	5223	5178	5200
10°	5212	5167	5181
15°	5186	5136	5148
20°	5133	5097	5100
25°	5059	5018	5026
30°	4919	4875	4872
35°	4712	4665	4643
40°	4416	4329	4311
45°	4019	3939	3863
50°	3619	3491	3377
55°	3140	2970	2881
60°	2742	2394	2477
65°	2373	1903	2202
70°	2093	1668	2151
75°	2101	1814	2352
80°	2302	2155	2663
85°	2427	2347	3054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	4.2
10°-20°	1043.4	12.0
20°-30°	1555.7	17.8
30°-40°	1768.5	20.3
40°-50°	1593.8	18.3
50°-60°	1148.0	13.2
60°-70°	667.8	7.6
70°-80°	408.6	4.7
80°-90°	178.8	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°	2964.3	34.0
0°-40°	4732.7	54.2
0°-60°	7474.6	85.6
0°-90°	8729.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8729.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3864	3864	3864	3864	3864	
5°	3867	3840	3834	3841	3850	367
15°	3723	3702	3687	3693	3695	1049
25°	3408	3387	3380	3375	3385	1565
35°	2869	2849	2840	2824	2827	1785
45°	2112	2088	2070	2038	2030	1629
55°	1339	1307	1266	1253	1228	1207
65°	745	670	598	644	692	745
75°	404	366	349	397	452	430
85°	157	156	152	206	198	166
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3863.8	3863.8	3863.8	3863.8	3863.8
2.5°	3879.4	3858.6	3841.4	3842.2	3850.9
5°	3867.3	3840.5	3833.6	3841.4	3850.0
7.5°	3845.7	3820.6	3816.3	3812.0	3822.4
10°	3814.6	3797.3	3781.8	3786.1	3792.1
12.5°	3773.1	3758.5	3747.2	3738.6	3751.5
15°	3723.0	3702.3	3686.8	3692.8	3695.4
17.5°	3660.0	3640.1	3635.8	3632.4	3645.3
20°	3584.9	3572.8	3559.8	3563.3	3561.6
22.5°	3505.4	3487.3	3476.9	3471.7	3485.6
25°	3407.8	3387.1	3380.2	3375.0	3385.4
27.5°	3288.6	3277.4	3267.9	3261.0	3261.9
30°	3166.0	3154.8	3137.5	3132.3	3135.8
32.5°	3025.2	3012.3	2996.7	2981.2	2992.4
35°	2868.9	2849.1	2840.4	2824.0	2826.6
37.5°	2684.1	2675.5	2667.7	2646.1	2653.0
40°	2514.0	2490.7	2464.8	2451.8	2454.4
42.5°	2317.1	2292.9	2272.2	2254.0	2245.4
45°	2112.4	2088.2	2070.1	2038.1	2030.4
47.5°	1908.6	1886.1	1866.3	1841.2	1818.8
50°	1729.0	1687.5	1667.6	1641.7	1613.2
52.5°	1526.9	1502.7	1463.8	1442.2	1416.3
55°	1338.6	1306.7	1266.1	1253.1	1228.1
57.5°	1169.3	1134.8	1075.2	1070.0	1069.2
60°	1019.1	972.4	889.5	895.6	920.6
62.5°	873.1	806.6	731.5	758.3	795.4
65°	745.3	670.2	597.6	644.3	691.8
67.5°	622.7	555.3	494.0	556.2	606.3
70°	532.0	475.9	424.0	490.5	546.7
72.5°	456.0	412.8	379.1	439.6	500.0
75°	404.2	366.2	348.9	397.3	452.5
77.5°	355.8	322.1	316.9	360.1	400.7
80°	297.1	273.8	278.1	322.1	343.7
82.5°	226.3	219.4	220.2	275.5	279.8
85°	157.2	155.5	152.0	206.4	197.8
87.5°	79.5	81.2	80.3	117.5	105.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)