

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: P476120

Luminaire Tested: **22GR-LD5-90-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476120  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-90-A125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9276.1 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

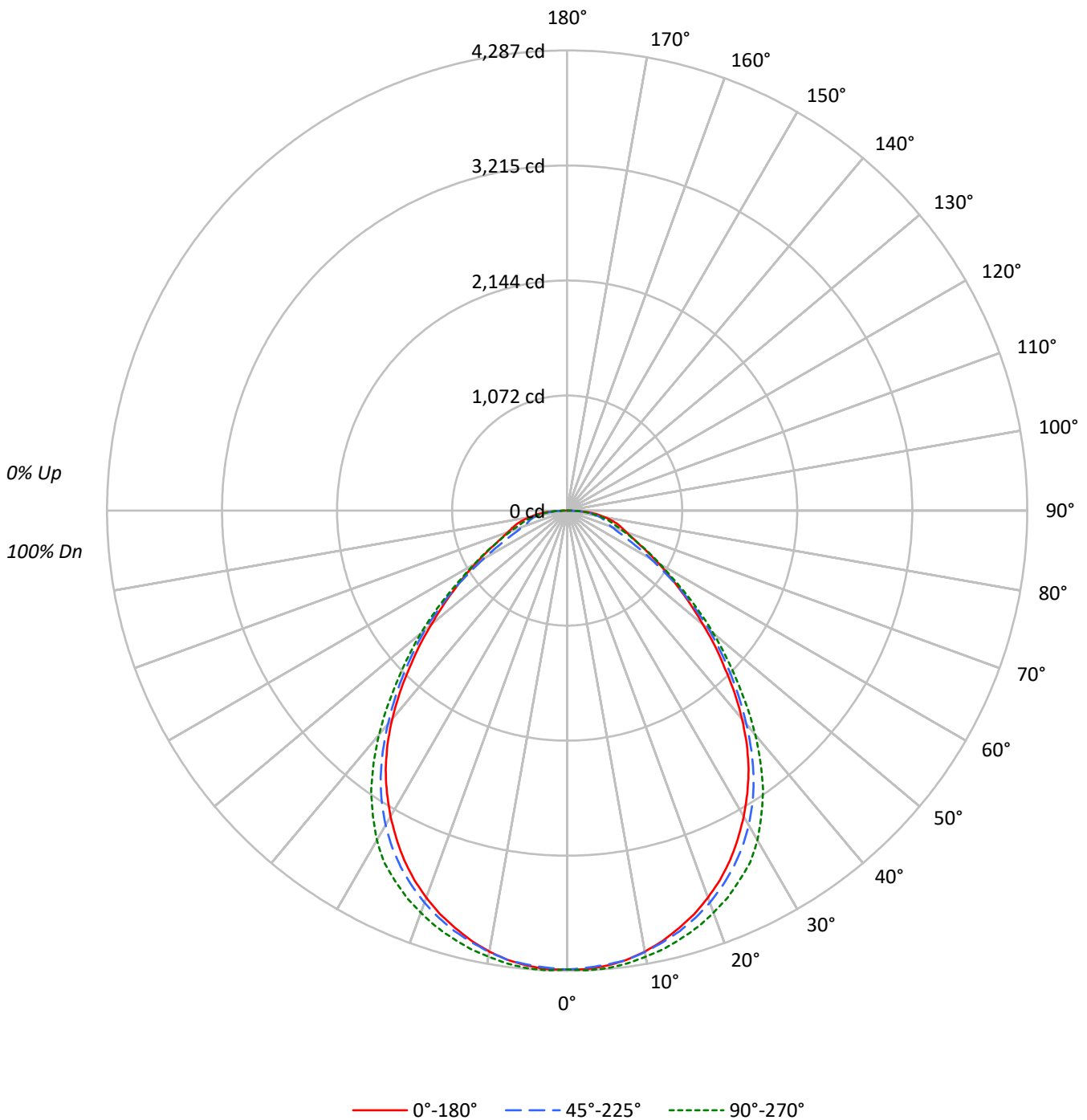
Input Watts (W): 69.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31					29				

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

	0°	45°	90°
0°	11506	11506	11506
5°	11498	11468	11562
10°	11401	11412	11530
15°	11219	11298	11490
20°	10988	11130	11415
25°	10667	10884	11284
30°	10222	10510	11016
35°	9683	9954	10458
40°	8905	9124	9581
45°	7910	8197	8493
50°	6909	7225	7443
55°	6006	6089	6312
60°	5285	4842	5389
65°	4697	3869	4722
70°	4611	3435	4358
75°	5039	3778	4450
80°	5534	4488	4762
85°	6607	5212	5335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.1	4.4
10°-20°	1146.0	12.4
20°-30°	1691.8	18.2
30°-40°	1893.1	20.4
40°-50°	1662.4	17.9
50°-60°	1176.3	12.7
60°-70°	684.7	7.4
70°-80°	426.7	4.6
80°-90°	190.9	2.1
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°	3241.9	34.9
0°-40°	5135.0	55.4
0°-60°	7973.7	86.0
0°-90°	9276.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9276.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4276	4276	4276	4276	4276	
5°	4256	4246	4246	4267	4280	404
15°	4027	4036	4056	4098	4124	1135
25°	3593	3607	3666	3752	3800	1650
35°	2948	2961	3030	3121	3183	1833
45°	2078	2102	2154	2206	2232	1608
55°	1280	1306	1298	1321	1345	1157
65°	738	679	608	662	742	748
75°	485	417	363	372	428	506
85°	214	223	169	164	173	218
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4275.8	4275.8	4275.8	4275.8	4275.8
2.5°	4275.8	4267.2	4262.7	4278.1	4286.7
5°	4256.4	4245.5	4245.5	4267.2	4280.4
7.5°	4222.0	4211.2	4223.8	4243.2	4256.4
10°	4172.2	4167.7	4176.3	4202.6	4219.7
12.5°	4107.0	4109.3	4117.9	4159.1	4180.8
15°	4026.9	4035.5	4055.5	4098.4	4124.2
17.5°	3940.5	3947.4	3977.1	4026.9	4064.1
20°	3836.9	3849.5	3886.7	3949.1	3986.3
22.5°	3721.9	3737.3	3782.5	3858.7	3903.9
25°	3592.6	3607.4	3665.8	3752.2	3800.3
27.5°	3445.5	3469.0	3534.2	3629.2	3693.9
30°	3289.8	3309.3	3382.5	3490.7	3545.1
32.5°	3123.3	3146.8	3216.0	3319.6	3367.7
35°	2947.6	2960.8	3030.0	3121.0	3183.4
37.5°	2749.1	2755.4	2820.0	2904.7	2960.8
40°	2535.1	2539.1	2597.4	2677.5	2727.3
42.5°	2311.9	2314.2	2377.1	2437.2	2480.7
45°	2078.4	2102.4	2153.9	2206.0	2231.8
47.5°	1868.4	1886.1	1933.6	1978.8	2002.9
50°	1650.4	1693.3	1725.9	1749.9	1778.0
52.5°	1462.1	1498.7	1507.3	1535.3	1559.4
55°	1280.1	1306.4	1297.9	1321.3	1345.4
57.5°	1126.8	1113.6	1085.6	1126.8	1157.1
60°	982.0	947.1	899.6	956.2	1001.4
62.5°	852.1	796.0	737.6	793.7	869.2
65°	737.6	679.3	607.7	662.1	741.6
67.5°	651.2	590.6	505.9	560.2	640.3
70°	586.0	523.6	436.6	482.4	553.9
72.5°	534.5	467.0	391.4	421.7	482.4
75°	484.7	417.2	363.4	372.0	428.0
77.5°	426.3	376.5	333.0	328.5	372.0
80°	357.1	341.6	289.6	283.3	307.3
82.5°	294.1	287.8	238.1	231.2	240.3
85°	214.0	222.6	168.8	164.2	172.8
87.5°	112.7	123.0	88.7	93.3	95.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)