

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: P475976

Luminaire Tested: **22GR-LD5-90-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475976  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-90-F125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9239.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

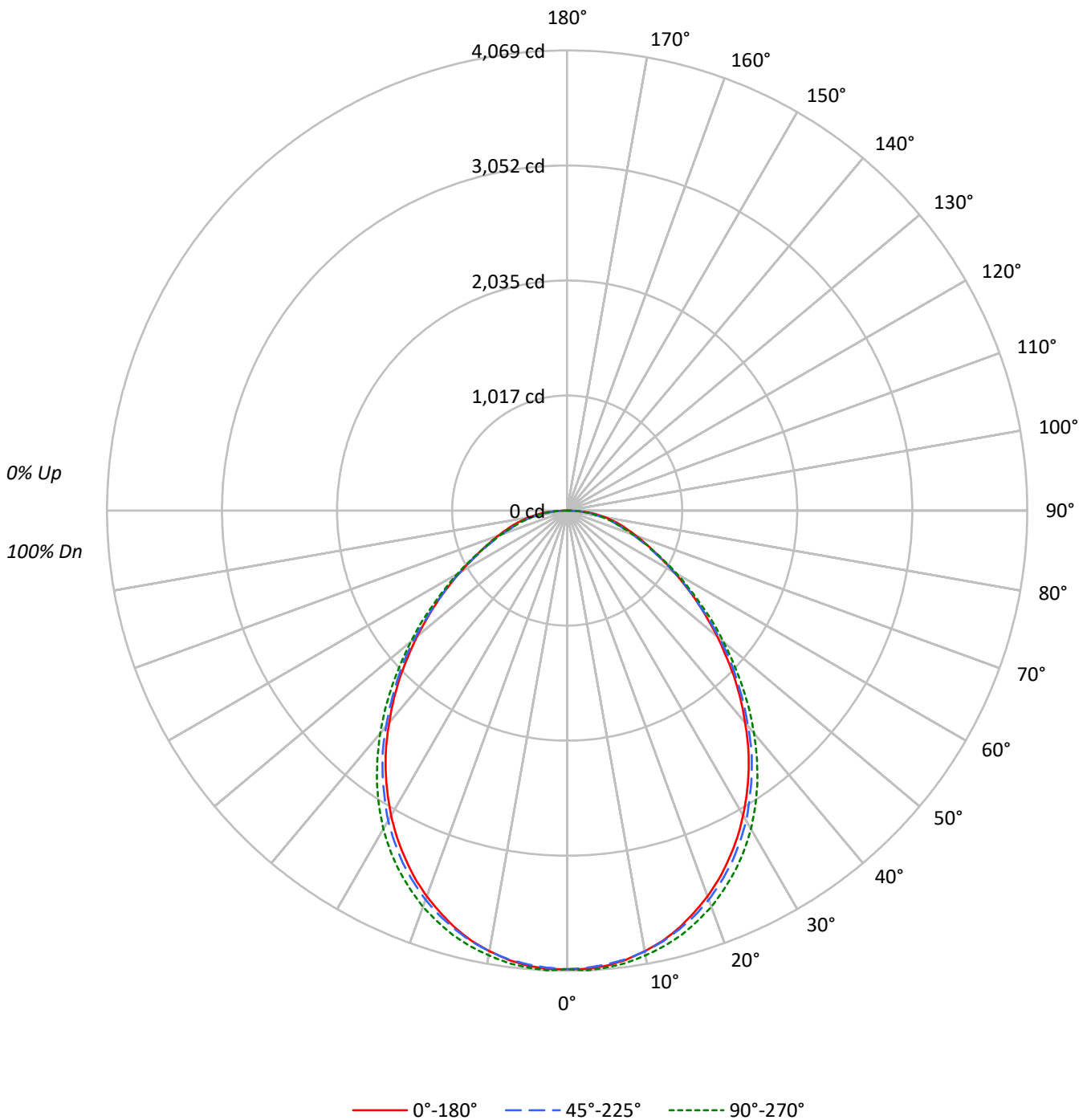
Input Watts (W): 69.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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

	0°	45°	90°
0°	10914	10914	10914
5°	10910	10881	10956
10°	10808	10814	10914
15°	10643	10678	10835
20°	10393	10486	10676
25°	10071	10210	10432
30°	9672	9839	10098
35°	9197	9346	9634
40°	8601	8742	9029
45°	7962	8085	8321
50°	7251	7368	7558
55°	6549	6567	6759
60°	5873	5894	6035
65°	5352	5240	5363
70°	5091	4806	4891
75°	5125	4635	4659
80°	5317	4685	4649
85°	5832	4956	4693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.2	4.1
10°-20°	1082.5	11.7
20°-30°	1584.4	17.1
30°-40°	1781.3	19.3
40°-50°	1642.8	17.8
50°-60°	1266.2	13.7
60°-70°	835.4	9.0
70°-80°	486.2	5.3
80°-90°	177.1	1.9
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°	3050.0	33.0
0°-40°	4831.4	52.3
0°-60°	7740.3	83.8
0°-90°	9239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9239.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4056	4056	4056	4056	4056	
5°	4039	4030	4028	4047	4056	383
15°	3820	3820	3833	3868	3889	1075
25°	3392	3409	3439	3486	3514	1560
35°	2800	2813	2845	2903	2933	1746
45°	2092	2094	2125	2167	2186	1611
55°	1396	1394	1400	1424	1441	1252
65°	840	836	823	830	842	843
75°	493	472	446	437	448	519
85°	189	187	160	148	152	200
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4055.8	4055.8	4055.8	4055.8	4055.8
2.5°	4055.8	4047.3	4045.0	4060.4	4068.9
5°	4038.8	4030.3	4028.0	4047.3	4055.8
7.5°	4004.8	3998.0	4000.2	4021.8	4032.6
10°	3955.4	3953.2	3957.7	3980.9	3994.0
12.5°	3897.6	3895.3	3903.8	3929.3	3946.9
15°	3820.4	3820.4	3832.9	3867.5	3889.1
17.5°	3728.0	3734.2	3753.5	3788.1	3811.4
20°	3629.3	3636.1	3661.6	3700.2	3728.0
22.5°	3519.8	3528.9	3554.4	3601.5	3625.3
25°	3391.7	3408.7	3438.7	3485.8	3513.6
27.5°	3258.4	3277.7	3305.5	3363.9	3389.4
30°	3112.6	3125.7	3166.5	3219.8	3249.9
32.5°	2958.3	2971.4	3005.4	3070.1	3095.6
35°	2799.5	2812.6	2844.9	2902.8	2932.8
37.5°	2628.3	2639.0	2677.6	2722.4	2754.7
40°	2448.5	2463.2	2488.7	2542.6	2570.4
42.5°	2272.6	2278.9	2306.7	2360.6	2381.5
45°	2092.3	2094.5	2124.6	2167.1	2186.4
47.5°	1905.7	1910.2	1946.5	1972.0	1991.3
50°	1732.1	1734.4	1759.9	1783.7	1805.3
52.5°	1558.6	1558.6	1571.6	1597.1	1624.9
55°	1395.8	1393.5	1399.8	1423.6	1440.6
57.5°	1241.5	1239.3	1247.8	1262.5	1275.6
60°	1091.2	1086.7	1095.2	1104.3	1121.3
62.5°	958.5	962.5	951.7	964.8	977.8
65°	840.5	836.0	823.0	829.8	842.2
67.5°	739.6	733.3	711.8	715.8	731.1
70°	647.1	634.7	610.8	610.8	621.6
72.5°	563.8	550.7	520.7	522.9	527.5
75°	492.9	471.9	445.8	437.3	448.1
77.5°	415.7	398.7	374.9	368.7	373.2
80°	343.1	330.1	302.3	293.8	300.0
82.5°	272.2	261.5	229.1	222.9	225.2
85°	188.9	186.6	160.5	148.0	152.0
87.5°	101.0	102.7	83.4	74.9	79.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)