

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: P475621

Luminaire Tested: **24GR-LD5-100-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475621  
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-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10234.5 lumens  
Efficiency: N/A  
Efficacy: 152.5 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

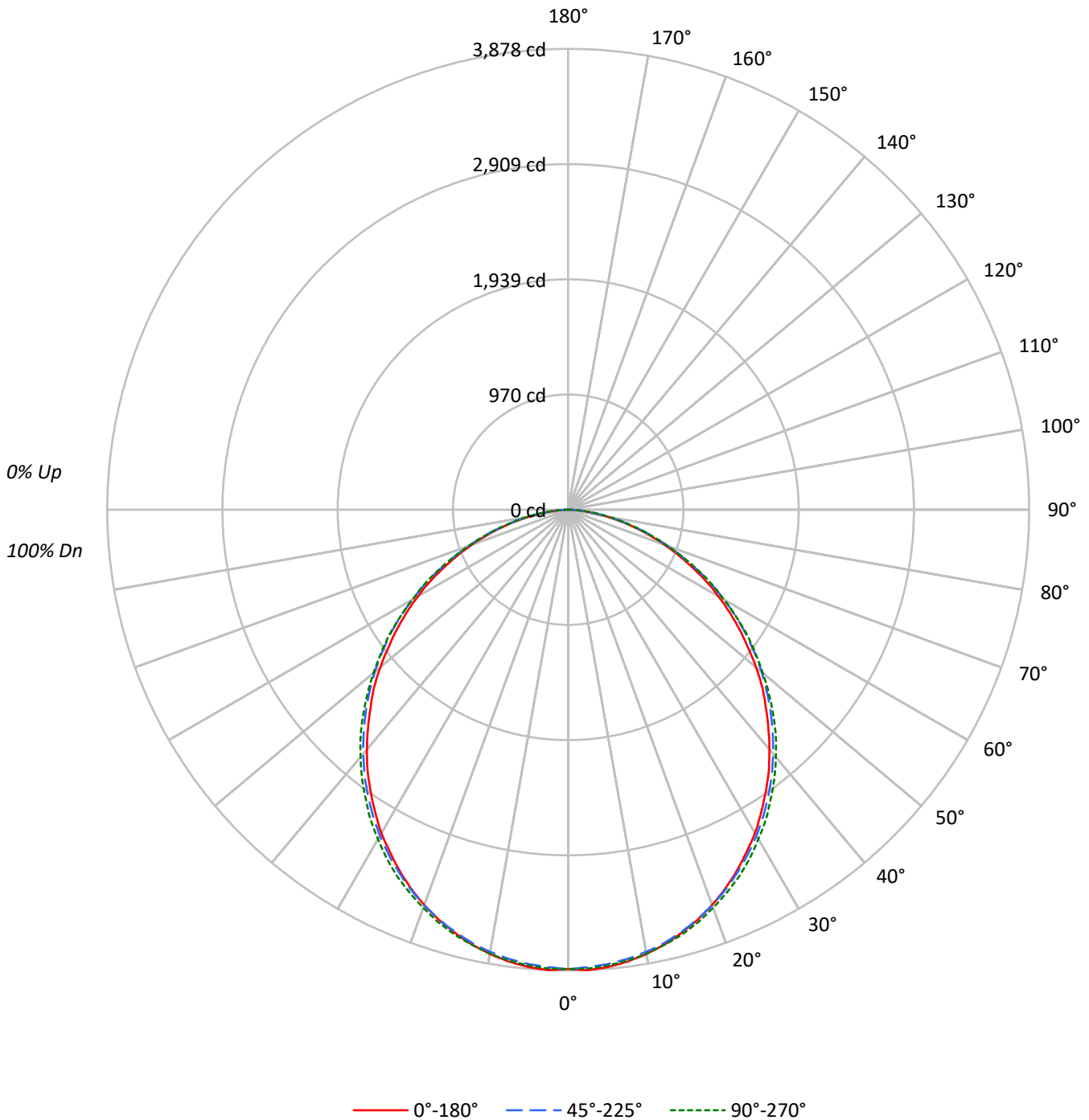
Input Watts (W): 67.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5200	5200	5200
5°	5216	5183	5198
10°	5186	5162	5183
15°	5135	5124	5155
20°	5069	5071	5105
25°	4981	5001	5053
30°	4884	4921	4972
35°	4758	4823	4879
40°	4627	4711	4773
45°	4474	4584	4642
50°	4319	4445	4475
55°	4132	4280	4312
60°	3934	4068	4073
65°	3676	3818	3838
70°	3405	3501	3490
75°	3025	3134	3143
80°	2531	2620	2720
85°	1899	2042	2113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	3.6
10°-20°	1039.0	10.2
20°-30°	1553.2	15.2
30°-40°	1835.0	17.9
40°-50°	1852.4	18.1
50°-60°	1616.6	15.8
60°-70°	1178.5	11.5
70°-80°	635.6	6.2
80°-90°	159.1	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°	2957.3	28.9
0°-40°	4792.3	46.8
0°-60°	8261.3	80.7
0°-90°	10234.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10234.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3865	3865	3865	3865	3865	
5°	3862	3848	3838	3841	3849	366
15°	3686	3679	3678	3687	3701	1039
25°	3355	3356	3368	3390	3404	1545
35°	2897	2905	2936	2965	2970	1812
45°	2351	2368	2409	2439	2440	1815
55°	1761	1783	1825	1832	1838	1574
65°	1154	1180	1199	1202	1206	1147
75°	582	588	603	605	604	618
85°	123	126	132	139	137	150
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3865.1	3865.1	3865.1	3865.1	3865.1
2.5°	3877.9	3864.0	3852.9	3855.3	3864.5
5°	3862.2	3848.3	3837.8	3841.3	3848.9
7.5°	3834.4	3821.6	3813.5	3817.0	3826.8
10°	3796.1	3785.6	3778.1	3783.3	3793.8
12.5°	3747.3	3736.9	3734.0	3741.5	3750.8
15°	3686.4	3678.9	3678.3	3687.0	3700.9
17.5°	3618.0	3610.4	3614.5	3626.1	3638.3
20°	3540.2	3533.3	3541.4	3557.0	3565.2
22.5°	3451.5	3445.6	3460.2	3476.4	3486.8
25°	3355.1	3355.7	3368.5	3390.0	3403.9
27.5°	3248.4	3252.5	3271.6	3292.5	3306.4
30°	3143.4	3139.9	3167.2	3189.8	3200.2
32.5°	3021.5	3023.3	3055.2	3078.4	3094.1
35°	2896.8	2904.9	2936.3	2964.7	2970.5
37.5°	2770.9	2776.7	2814.4	2842.3	2849.8
40°	2634.6	2645.0	2682.1	2708.2	2717.5
42.5°	2492.4	2505.8	2545.8	2573.1	2585.3
45°	2351.4	2368.3	2408.9	2439.0	2439.6
47.5°	2215.1	2227.3	2266.7	2293.4	2290.5
50°	2063.1	2081.1	2123.4	2139.7	2137.9
52.5°	1907.6	1934.9	1973.7	1986.5	1984.8
55°	1761.4	1782.9	1824.6	1831.6	1838.0
57.5°	1610.0	1628.5	1673.8	1676.7	1675.5
60°	1462.0	1478.9	1511.9	1520.1	1513.7
62.5°	1312.9	1329.8	1359.3	1367.5	1366.3
65°	1154.5	1179.5	1199.2	1201.5	1205.6
67.5°	1007.2	1022.8	1042.0	1045.5	1042.6
70°	865.6	879.0	890.0	892.3	887.1
72.5°	719.4	731.6	747.3	750.2	744.4
75°	581.9	587.7	602.8	605.1	604.5
77.5°	448.5	453.1	464.1	472.8	474.0
80°	326.6	328.4	338.2	344.6	351.0
82.5°	216.4	221.0	228.6	235.0	240.8
85°	123.0	125.9	132.3	138.7	136.9
87.5°	47.6	54.0	54.5	60.9	63.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)