

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: P475588

Luminaire Tested: **24GR-LD5-72-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475588  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-F125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6865.8 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

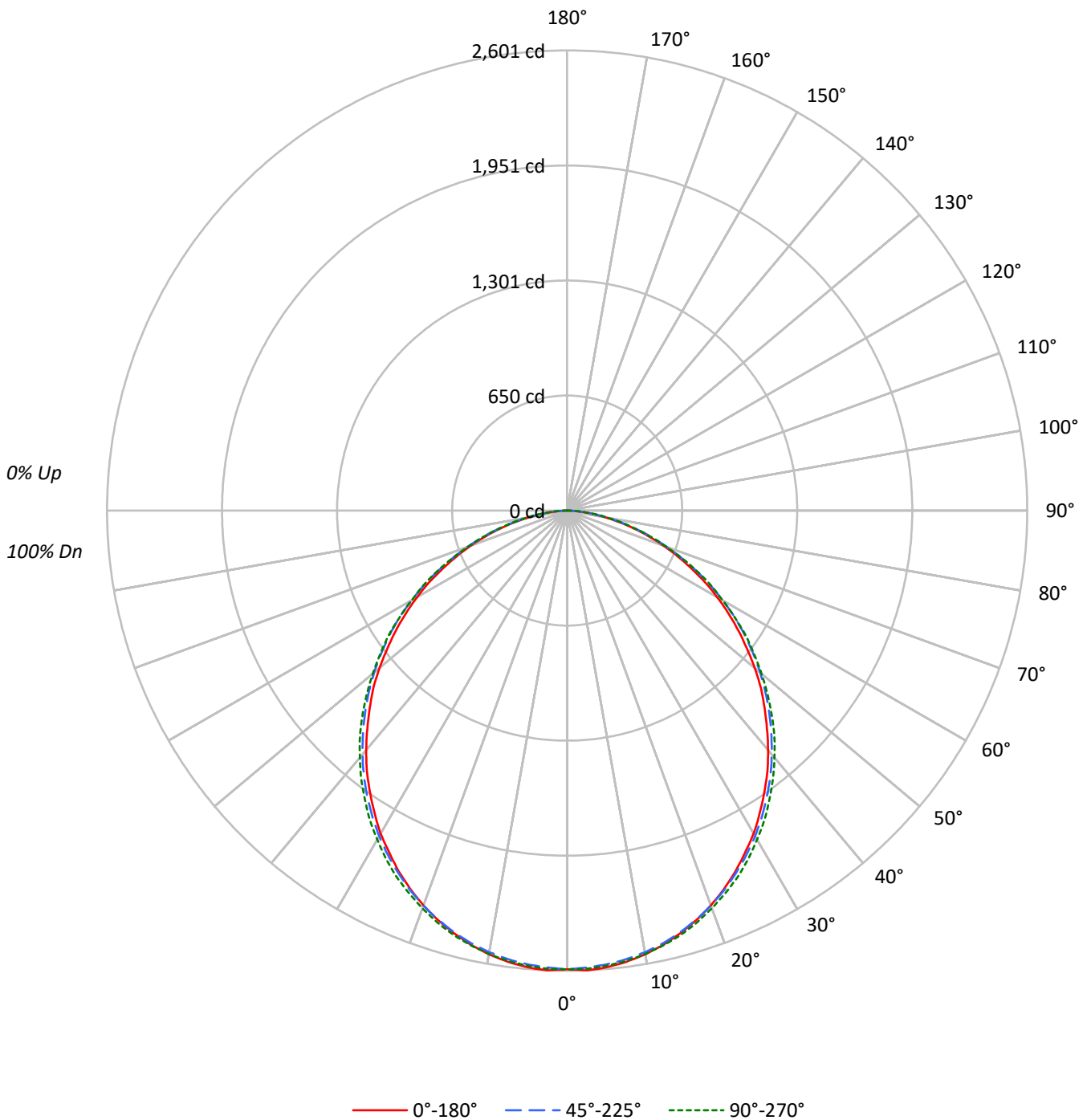
Input Watts (W): 48.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3489	3489	3489
5°	3499	3477	3487
10°	3479	3463	3477
15°	3445	3437	3458
20°	3400	3402	3425
25°	3342	3355	3390
30°	3276	3301	3336
35°	3192	3235	3273
40°	3104	3160	3202
45°	3002	3075	3114
50°	2897	2982	3002
55°	2772	2871	2892
60°	2639	2729	2732
65°	2466	2561	2575
70°	2284	2349	2341
75°	2030	2102	2109
80°	1698	1758	1825
85°	1274	1369	1419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.0	3.6
10°-20°	697.0	10.2
20°-30°	1041.9	15.2
30°-40°	1231.0	17.9
40°-50°	1242.7	18.1
50°-60°	1084.5	15.8
60°-70°	790.6	11.5
70°-80°	426.4	6.2
80°-90°	106.7	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°	1983.9	28.9
0°-40°	3214.9	46.8
0°-60°	5542.0	80.7
0°-90°	6865.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6865.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2591	2582	2575	2577	2582	246
15°	2473	2468	2468	2473	2483	697
25°	2251	2251	2260	2274	2284	1036
35°	1943	1949	1970	1989	1993	1216
45°	1578	1589	1616	1636	1637	1218
55°	1182	1196	1224	1229	1233	1056
65°	774	791	804	806	809	770
75°	390	394	404	406	406	415
85°	82	84	89	93	92	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2592.9	2592.9	2592.9	2592.9	2592.9
2.5°	2601.4	2592.1	2584.7	2586.3	2592.5
5°	2590.9	2581.6	2574.6	2576.9	2582.0
7.5°	2572.3	2563.7	2558.2	2560.6	2567.2
10°	2546.6	2539.6	2534.5	2538.0	2545.0
12.5°	2513.9	2506.9	2504.9	2510.0	2516.2
15°	2473.0	2468.0	2467.6	2473.4	2482.7
17.5°	2427.1	2422.0	2424.8	2432.5	2440.7
20°	2374.9	2370.3	2375.7	2386.2	2391.7
22.5°	2315.4	2311.5	2321.2	2332.1	2339.1
25°	2250.8	2251.2	2259.7	2274.1	2283.5
27.5°	2179.2	2181.9	2194.7	2208.7	2218.1
30°	2108.7	2106.4	2124.7	2139.9	2146.9
32.5°	2027.0	2028.2	2049.6	2065.1	2075.6
35°	1943.3	1948.8	1969.8	1988.8	1992.7
37.5°	1858.8	1862.7	1888.0	1906.7	1911.8
40°	1767.4	1774.4	1799.3	1816.8	1823.0
42.5°	1672.0	1681.0	1707.8	1726.1	1734.3
45°	1577.5	1588.7	1616.0	1636.2	1636.6
47.5°	1486.0	1494.2	1520.6	1538.5	1536.6
50°	1384.0	1396.1	1424.5	1435.4	1434.2
52.5°	1279.7	1298.0	1324.1	1332.6	1331.5
55°	1181.6	1196.0	1224.1	1228.7	1233.0
57.5°	1080.0	1092.5	1122.9	1124.8	1124.0
60°	980.8	992.1	1014.3	1019.7	1015.4
62.5°	880.8	892.1	911.9	917.4	916.6
65°	774.5	791.3	804.5	806.0	808.8
67.5°	675.7	686.2	699.0	701.3	699.4
70°	580.7	589.6	597.0	598.6	595.1
72.5°	482.6	490.8	501.3	503.2	499.4
75°	390.4	394.3	404.4	405.9	405.6
77.5°	300.9	304.0	311.4	317.2	318.0
80°	219.1	220.3	226.9	231.2	235.5
82.5°	145.2	148.3	153.3	157.6	161.5
85°	82.5	84.5	88.7	93.0	91.9
87.5°	31.9	36.2	36.6	40.9	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)