

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P31049

Luminaire Tested: **2GR5-328T5A125-UNV-EBT2**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P31049
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR5-328T5A125-UNV-EBT2
Description: METALUX 2' X 4' COMMERCIAL T5HO TROFFER WITH ACRYLIC PRISMATIC LENS,
NOM. 0.125" THICK SHIELDING MEDIA
Light Source: (3) DOUBLE BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K
GE F28W/T5/835/ECO
Ballast/Driver: -
(2) GE228MVPS-A

Summary

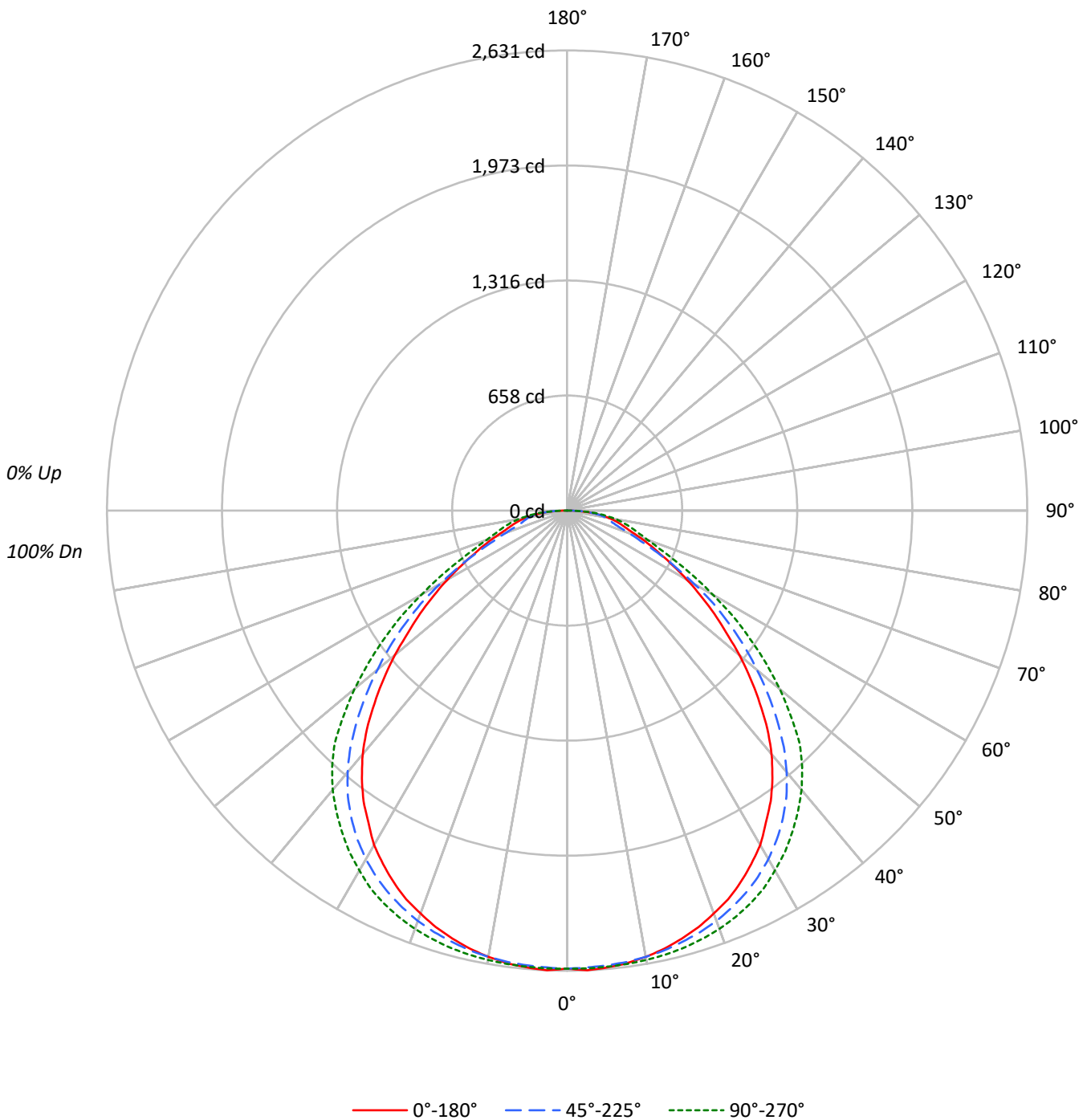
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6849.6 lumens
Efficiency: 78.7%
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.34 / 1.37
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 95.4
Input Voltage (V): NR
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									
RC	80									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	94	94	94	94	92	92	92	92	87	87	87	84	84	84	80	80	80	80	80	80	80	80	80	79													
1	86	83	79	76	84	81	78	75	77	75	73	74	72	71	72	70	69	69	69	69	69	69	69	67													
2	79	73	68	63	77	71	67	63	68	65	61	66	63	60	64	61	58	58	58	58	58	58	58	57													
3	72	64	58	53	70	63	57	53	61	56	52	59	55	51	57	53	50	50	50	50	50	50	50	49													
4	66	57	51	46	65	56	50	45	54	49	45	53	48	44	51	47	44	44	44	44	44	44	44	42													
5	61	51	45	40	60	51	44	39	49	43	39	47	42	39	46	42	38	38	38	38	38	38	38	37													
6	57	47	40	35	55	46	39	35	44	39	34	43	38	34	42	37	34	34	34	34	34	34	34	32													
7	53	42	36	31	51	42	35	31	40	35	31	39	34	30	38	34	30	30	30	30	30	30	30	29													
8	49	39	32	28	48	38	32	28	37	31	27	36	31	27	35	31	27	27	27	27	27	27	27	26													
9	46	36	29	25	45	35	29	25	34	29	25	33	28	25	33	28	24	24	24	24	24	24	24	23													
10	43	33	27	23	42	32	27	23	32	26	22	31	26	22	30	26	22	22	22	22	22	22	22	21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4202	4202	4202
5°	4223	4204	4217
10°	4222	4222	4251
15°	4208	4239	4297
20°	4187	4262	4346
25°	4153	4274	4389
30°	4091	4263	4402
35°	3974	4211	4396
40°	3810	4091	4367
45°	3535	3853	4266
50°	3208	3537	3959
55°	2870	3170	3567
60°	2542	2692	3084
65°	2225	2157	2593
70°	2036	1750	2294
75°	2033	1674	2362
80°	2245	2042	2597
85°	2430	2522	2909



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	248.9	3.6	2.9	0°	2619	2619	2619	2619	2619	
10°-20°	721.9	10.5	8.3	5°	2622	2613	2610	2612	2618	249
20°-30°	1111.0	16.2	12.8	15°	2533	2535	2552	2573	2587	715
30°-40°	1336.7	19.5	15.4	25°	2346	2361	2414	2459	2479	1080
40°-50°	1311.3	19.1	15.1	35°	2029	2069	2150	2211	2244	1265
50°-60°	1024.3	15.0	11.8	45°	1558	1591	1698	1807	1880	1200
60°-70°	612.6	8.9	7.0	55°	1026	1053	1133	1247	1275	918
70°-80°	336.1	4.9	3.9	65°	586	564	568	655	683	591
80°-90°	146.8	2.1	1.7	75°	328	292	270	332	381	349
90°-100°	0.0	0.0	0.0	85°	132	133	137	161	158	140
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	2081.7	30.4	23.9							
0°-40°	3418.4	49.9	39.3							
0°-60°	5754.1	84.0	66.1							
0°-90°	6849.6	100.0	78.7							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	6849.6	100.0	78.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2619	2619	2619	2619	2619
2.5°	2631	2619	2615	2614	2620
5°	2622	2613	2610	2612	2618
7.5°	2611	2601	2603	2606	2615
10°	2591	2585	2591	2599	2609
12.5°	2566	2564	2575	2588	2600
15°	2533	2535	2552	2573	2587
17.5°	2497	2503	2527	2555	2568
20°	2452	2460	2496	2529	2545
22.5°	2405	2414	2458	2497	2515
25°	2346	2361	2414	2459	2479
27.5°	2279	2308	2362	2412	2435
30°	2208	2232	2301	2355	2376
32.5°	2115	2154	2231	2287	2316
35°	2029	2069	2150	2211	2244
37.5°	1928	1968	2060	2131	2168
40°	1819	1856	1953	2041	2085
42.5°	1695	1736	1834	1940	1989
45°	1558	1591	1698	1807	1880
47.5°	1422	1464	1560	1682	1733
50°	1285	1325	1417	1533	1586
52.5°	1145	1185	1279	1398	1432
55°	1026	1053	1133	1247	1275
57.5°	903	927	993	1100	1125
60°	792	801	839	944	961
62.5°	682	675	697	797	819
65°	586	564	568	655	683
67.5°	509	468	456	543	572
70°	434	392	373	457	489
72.5°	371	341	309	387	426
75°	328	292	270	332	381
77.5°	286	253	245	288	334
80°	243	214	221	248	281
82.5°	191	177	185	210	222
85°	132	133	137	161	158
87.5°	70	79	78	94	88
90°	0	0	0	0	0

(END OF REPORT)