

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: P31048

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P31048
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR5-328TA-UNV-EBT2
Description: METALUX 2' X 4' COMMERCIAL T5HO TROFFER WITH ACRYLIC PRISMATIC LENS
Light Source: (3) DOUBLE BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K
GE F28W/T5/835/ECO
Ballast/Driver: -
(2) GE228MVPS-A

Summary

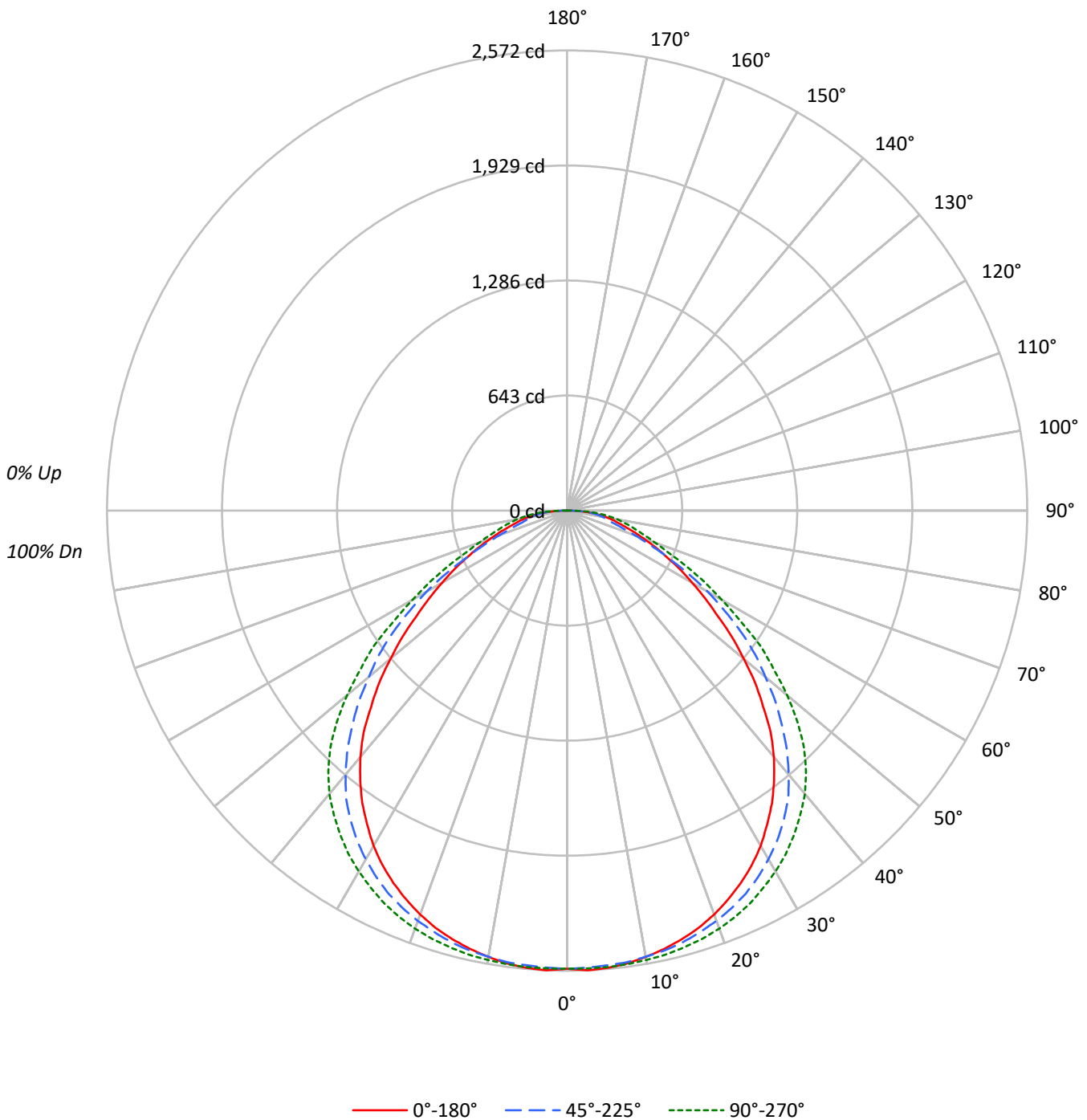
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6843.3 lumens
Efficiency: 78.7%
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.34 / 1.38
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 94.3
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				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	94	94	94	94	91	91	91	91	87	87	87		84	84	84		80	80	80	79
1	86	82	79	76	84	81	78	75	77	75	73		74	72	70		71	70	68	67
2	79	72	67	63	77	71	66	62	68	64	61		66	62	59		63	61	58	56
3	72	64	58	53	70	63	57	52	60	56	52		58	54	51		56	53	50	48
4	66	57	50	45	64	56	50	45	54	49	44		52	48	44		51	46	43	41
5	61	51	44	39	59	50	44	39	49	43	39		47	42	38		46	41	38	36
6	56	46	39	34	55	45	39	34	44	38	34		43	38	34		41	37	33	32
7	52	42	35	30	51	41	35	30	40	34	30		39	34	30		38	33	30	28
8	49	38	32	27	47	38	31	27	37	31	27		36	31	27		35	30	27	25
9	46	35	29	25	44	35	29	24	34	28	24		33	28	24		32	28	24	23
10	43	32	26	22	42	32	26	22	31	26	22		31	26	22		30	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4109	4109	4109
5°	4133	4110	4125
10°	4127	4125	4155
15°	4120	4150	4198
20°	4102	4166	4245
25°	4067	4182	4286
30°	4009	4171	4315
35°	3910	4135	4331
40°	3766	4034	4330
45°	3515	3855	4248
50°	3218	3610	4009
55°	2876	3329	3690
60°	2590	2914	3203
65°	2324	2358	2775
70°	2116	1877	2444
75°	1996	1630	2412
80°	2125	1848	2633
85°	2357	2320	3075



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	243.4	3.6	2.8	0°	2561	2561	2561	2561	2561	
10°-20°	705.9	10.3	8.1	5°	2566	2556	2552	2556	2561	244
20°-30°	1086.4	15.9	12.5	15°	2480	2479	2498	2516	2527	700
30°-40°	1314.9	19.2	15.1	25°	2297	2314	2362	2401	2421	1058
40°-50°	1310.0	19.1	15.1	35°	1996	2032	2111	2177	2211	1245
50°-60°	1047.4	15.3	12.0	45°	1549	1593	1699	1811	1872	1195
60°-70°	645.1	9.4	7.4	55°	1028	1075	1190	1257	1319	927
70°-80°	346.9	5.1	4.0	65°	612	583	621	687	731	614
80°-90°	143.2	2.1	1.6	75°	322	300	263	365	389	349
90°-100°	0.0	0.0	0.0	85°	128	122	126	163	167	135
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°	2035.7	29.7	23.4							
0°-40°	3350.7	49.0	38.5							
0°-60°	5708.1	83.4	65.6							
0°-90°	6843.3	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°	6843.3	100.0	78.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2561	2561	2561	2561	2561
2.5°	2572	2562	2557	2557	2561
5°	2566	2556	2552	2556	2561
7.5°	2554	2545	2546	2551	2558
10°	2533	2529	2532	2542	2550
12.5°	2509	2506	2518	2532	2542
15°	2480	2479	2498	2516	2527
17.5°	2445	2447	2470	2495	2510
20°	2402	2409	2440	2468	2486
22.5°	2352	2366	2404	2438	2457
25°	2297	2314	2362	2401	2421
27.5°	2235	2254	2310	2353	2376
30°	2164	2188	2251	2304	2329
32.5°	2080	2115	2186	2243	2275
35°	1996	2032	2111	2177	2211
37.5°	1900	1936	2029	2106	2142
40°	1798	1836	1926	2020	2067
42.5°	1685	1721	1818	1921	1976
45°	1549	1593	1699	1811	1872
47.5°	1425	1469	1579	1683	1744
50°	1289	1343	1446	1551	1606
52.5°	1161	1208	1327	1412	1455
55°	1028	1075	1190	1257	1319
57.5°	915	944	1045	1108	1147
60°	807	822	908	952	998
62.5°	710	693	761	810	863
65°	612	583	621	687	731
67.5°	533	490	501	580	611
70°	451	411	400	494	521
72.5°	384	349	322	426	448
75°	322	300	263	365	389
77.5°	275	256	228	311	336
80°	230	212	200	264	285
82.5°	185	167	166	214	233
85°	128	122	126	163	167
87.5°	67	70	72	99	97
90°	0	0	0	0	0

(END OF REPORT)