

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: p31262

Luminaire Tested: **2GR5-314T5A-UNV-EBT2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: p31262
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR5-314T5A-UNV-EBT2-U
Description: METALUX 2' X 2' COMMERCIAL T5 TROFFER WITH ACRYLIC PRISMATIC LENS
Light Source: (3) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K
F14W/T5/835/ECO
Ballast/Driver: -
B228PUNV-C

Summary

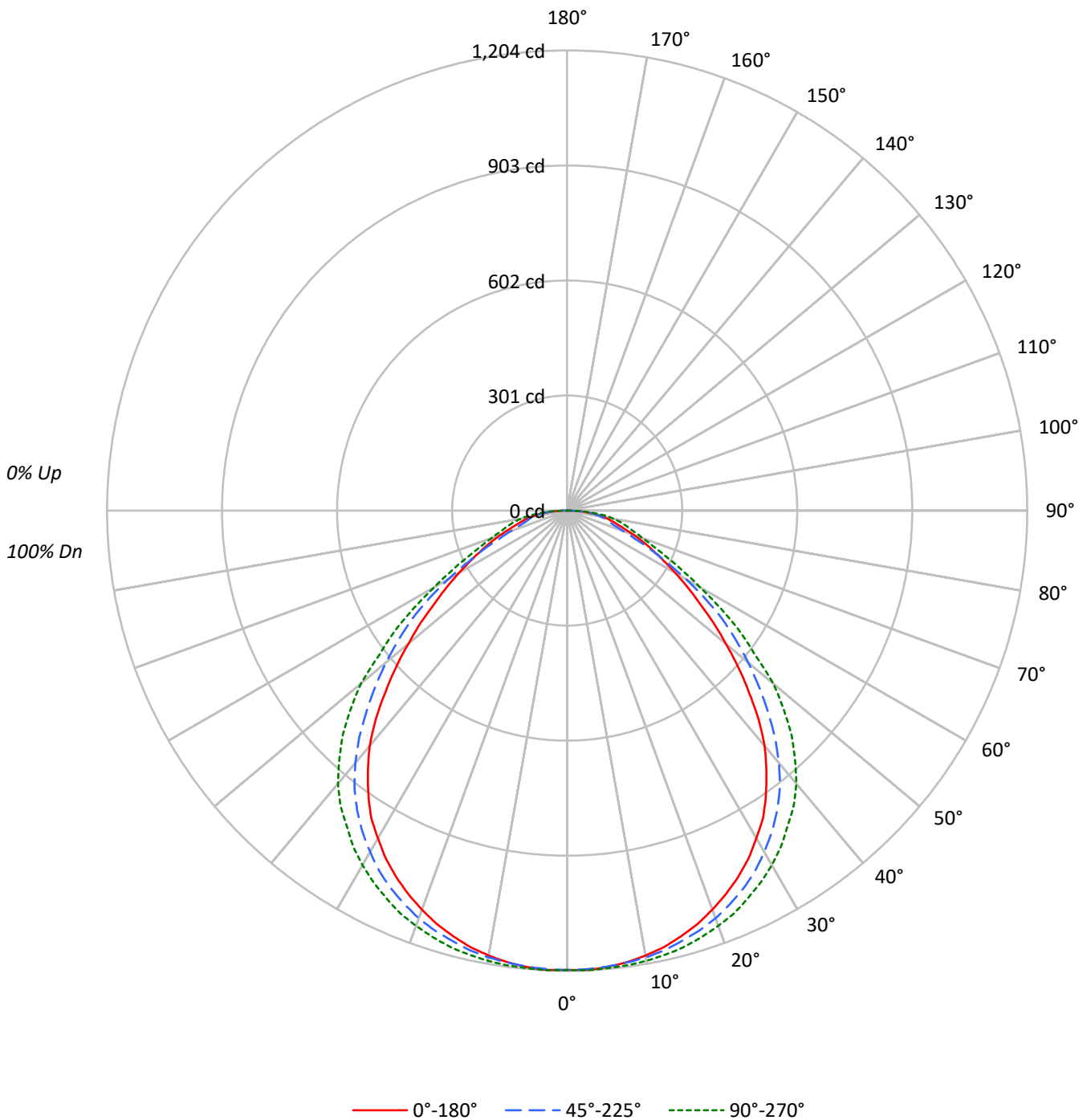
Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 3012.8 lumens
Efficiency: 77.3%
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.34
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 48.8
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	50	30	10	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77				77
1	85	81	78	75	83	79	77	74	76	74	72	73	71	70	70	69	67	66				66
2	78	72	67	63	76	70	66	62	67	64	60	65	62	59	63	60	58	56				56
3	71	63	58	53	69	62	57	52	60	55	51	58	54	51	56	53	50	48				48
4	65	57	50	45	64	56	50	45	54	49	44	52	48	44	50	46	43	42				42
5	60	51	44	39	59	50	44	39	49	43	39	47	42	38	46	41	38	36				36
6	56	46	39	35	55	45	39	35	44	38	34	43	38	34	42	37	34	32				32
7	52	42	35	31	51	41	35	31	40	35	31	39	34	30	38	34	30	29				29
8	48	38	32	28	47	38	32	28	37	31	27	36	31	27	35	30	27	26				26
9	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23				23
10	43	33	27	23	42	32	27	23	31	26	23	31	26	22	30	26	22	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4126	4126	4126
5°	4131	4128	4142
10°	4120	4137	4169
15°	4097	4140	4200
20°	4058	4146	4223
25°	4007	4132	4238
30°	3924	4086	4245
35°	3801	4014	4215
40°	3603	3862	4181
45°	3267	3602	4029
50°	2894	3300	3759
55°	2531	2968	3303
60°	2245	2465	2760
65°	2014	1957	2331
70°	1847	1556	2108
75°	1764	1485	2162
80°	1917	1759	2431
85°	2009	2048	2678



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	114.1	3.8	2.9	0°	1202	1202	1202	1202	1202	
10°-20°	329.4	10.9	8.4	5°	1199	1197	1198	1201	1202	114
20°-30°	502.0	16.7	12.9	15°	1153	1156	1165	1177	1182	325
30°-40°	596.8	19.8	15.3	25°	1058	1070	1091	1111	1119	487
40°-50°	573.5	19.0	14.7	35°	907	920	958	990	1006	565
50°-60°	435.5	14.5	11.2	45°	673	693	742	796	830	519
60°-70°	256.5	8.5	6.6	55°	423	443	496	528	552	383
70°-80°	145.1	4.8	3.7	65°	248	232	241	272	287	248
80°-90°	59.9	2.0	1.5	75°	133	127	112	155	163	143
90°-100°	0.0	0.0	0.0	85°	51	51	52	68	68	56
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°	945.5	31.4	24.2							
0°-40°	1542.3	51.2	39.5							
0°-60°	2551.3	84.7	65.4							
0°-90°	3012.8	100.0	77.3							
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°	3012.8	100.0	77.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202	1202	1202	1202	1202
2.5°	1203	1201	1201	1203	1204
5°	1199	1197	1198	1201	1202
7.5°	1192	1192	1193	1198	1200
10°	1182	1183	1187	1193	1196
12.5°	1170	1171	1178	1186	1190
15°	1153	1156	1165	1177	1182
17.5°	1134	1140	1152	1165	1170
20°	1111	1120	1135	1150	1156
22.5°	1086	1096	1114	1133	1141
25°	1058	1070	1091	1111	1119
27.5°	1027	1039	1064	1087	1097
30°	990	1005	1031	1058	1071
32.5°	954	965	997	1026	1042
35°	907	920	958	990	1006
37.5°	856	874	914	950	974
40°	804	817	862	905	933
42.5°	742	758	805	855	882
45°	673	693	742	796	830
47.5°	608	629	680	729	768
50°	542	566	618	668	704
52.5°	483	503	556	599	619
55°	423	443	496	528	552
57.5°	374	381	428	455	476
60°	327	326	359	384	402
62.5°	285	276	292	326	341
65°	248	232	241	272	287
67.5°	216	200	191	233	243
70°	184	172	155	203	210
72.5°	155	147	130	178	183
75°	133	127	112	155	163
77.5°	115	108	101	132	144
80°	97	88	89	111	123
82.5°	78	70	73	91	100
85°	51	51	52	68	68
87.5°	29	30	29	37	34
90°	0	0	0	0	0

(END OF REPORT)