

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: 241p109

Luminaire Tested: **2AC2-214T5PBI-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 241p109
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2AC2-214T5PBI-UNV-EB81
Description: 2X2 2 LAMP 14W T5 TROFFER WITH FROSTED LENS AND SEMI SPECULAR
PARABOLIC LOUVER
Light Source: TWO - PHILIPS - TL514W/841 - 1350 LUMENS - 14 WATTS
Ballast/Driver: B228PUNV

Summary

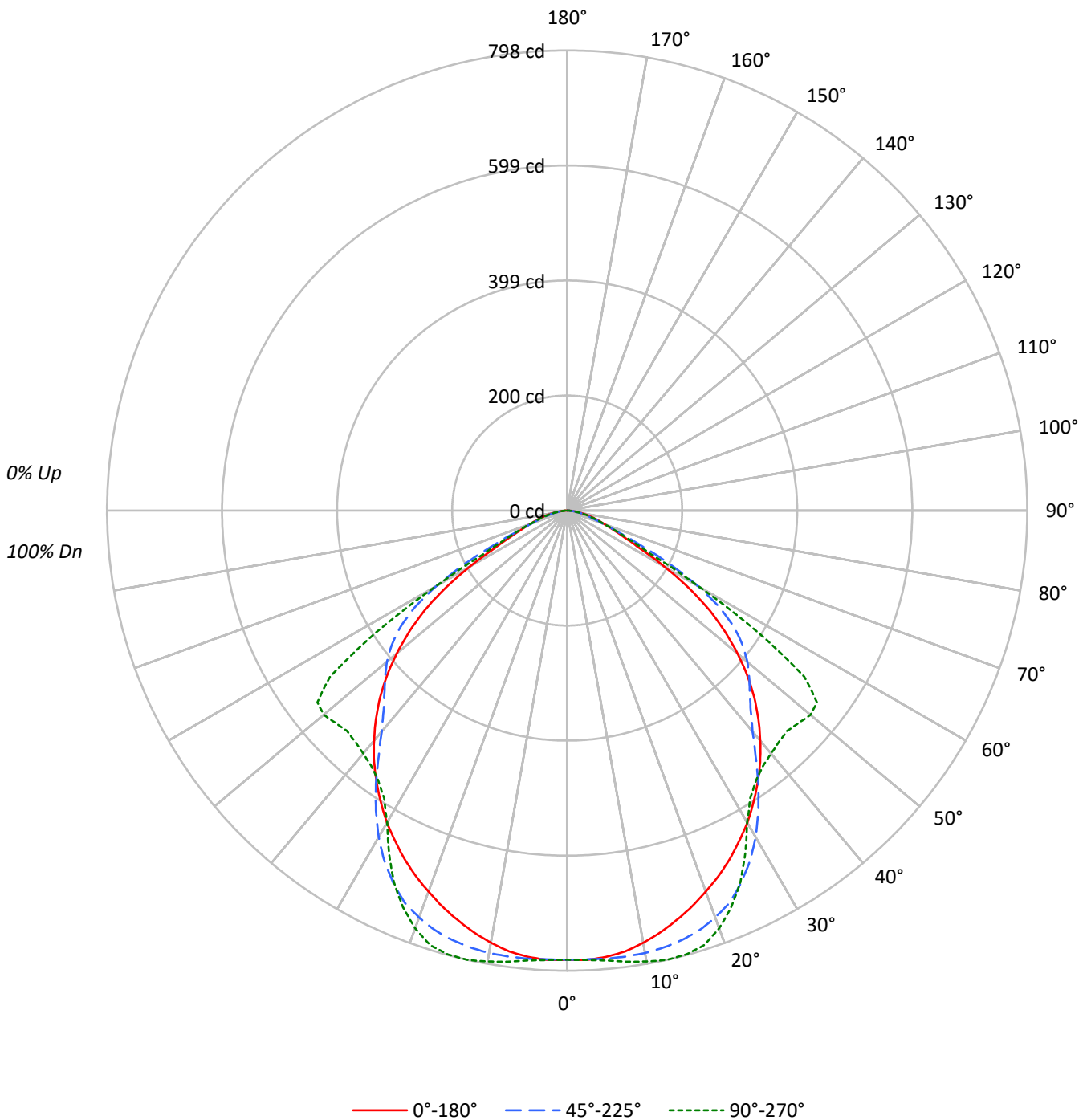
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 1854.4 lumens
Efficiency: 68.7%
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.28
Luminous Opening: Rectangular (W 1.98' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	76	73	71	68	74	72	69	67	69	67	65	66	65	63	64	63	61	60
2	70	65	61	57	68	64	60	57	61	58	55	59	57	54	57	55	53	52
3	64	58	53	49	63	57	52	48	55	51	48	53	50	47	51	48	46	45
4	59	52	46	42	58	51	46	42	49	45	41	48	44	41	46	43	40	39
5	55	46	41	37	53	46	40	36	44	40	36	43	39	36	42	38	35	34
6	51	42	36	32	49	41	36	32	40	35	32	39	35	31	38	34	31	30
7	47	38	33	29	46	38	32	28	37	32	28	36	31	28	35	31	28	27
8	44	35	29	26	43	34	29	26	34	29	25	33	28	25	32	28	25	24
9	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22
10	38	30	24	21	38	29	24	21	29	24	21	28	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2141	2141	2141
5°	2143	2152	2160
10°	2123	2174	2216
15°	2091	2193	2267
20°	2056	2196	2255
25°	2022	2162	2156
30°	1983	2075	1980
35°	1932	1939	1915
40°	1869	1794	1973
45°	1784	1741	2099
50°	1650	1744	2356
55°	1447	1696	2405
60°	1077	1440	1451
65°	702	884	774
70°	554	514	546
75°	478	414	446
80°	396	348	332
85°	284	252	252



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	74.4	4.0	2.8	0°	779	779	779	779	779	
10°-20°	216.7	11.7	8.0	5°	777	778	780	782	783	74
20°-30°	321.6	17.3	11.9	15°	735	746	771	792	797	207
30°-40°	362.6	19.6	13.4	25°	667	691	713	712	711	307
40°-50°	370.3	20.0	13.7	35°	576	604	578	556	571	360
50°-60°	322.6	17.4	11.9	45°	459	468	448	499	540	352
60°-70°	131.9	7.1	4.9	55°	302	301	354	444	502	265
70°-80°	44.3	2.4	1.6	65°	108	110	136	122	119	115
80°-90°	9.9	0.5	0.4	75°	45	40	39	41	42	48
90°-100°	0.0	0.0	0.0	85°	9	8	8	8	8	11
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°	612.7	33.0	22.7							
0°-40°	975.4	52.6	36.1							
0°-60°	1668.4	90.0	61.8							
0°-90°	1854.4	100.0	68.7							
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°	1854.4	100.0	68.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779	779	779	779	779
2.5°	780	780	779	779	780
5°	777	778	780	782	783
7.5°	771	774	780	786	789
10°	761	767	779	790	794
12.5°	749	757	776	793	798
15°	735	746	771	792	797
17.5°	720	734	763	786	790
20°	703	721	751	769	771
22.5°	686	707	736	744	744
25°	667	691	713	712	711
27.5°	646	673	686	674	669
30°	625	652	654	630	624
32.5°	601	630	617	587	591
35°	576	604	578	556	571
37.5°	550	575	537	535	558
40°	521	543	500	520	550
42.5°	491	507	471	509	544
45°	459	468	448	499	540
47.5°	424	427	428	490	545
50°	386	385	408	484	551
52.5°	345	343	384	474	546
55°	302	301	354	444	502
57.5°	251	258	315	379	392
60°	196	209	262	277	264
62.5°	143	155	199	182	164
65°	108	110	136	122	119
67.5°	85	82	90	92	89
70°	69	64	64	70	68
72.5°	56	51	49	53	54
75°	45	40	39	41	42
77.5°	34	30	30	31	32
80°	25	22	22	21	21
82.5°	16	14	14	13	14
85°	9	8	8	8	8
87.5°	3	3	3	3	4
90°	0	0	0	0	0

(END OF REPORT)