

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: 241p110

Luminaire Tested: **2AC2-214T5PBW-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 241p110
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2AC2-214T5PBW-UNV-EB81
Description: 2X2 2 LAMP 14W T5 TROFFER WITH FROSTED LENS AND WHITE PAINTED
PARABOLIC LOUVER
Light Source: TWO - PHILIPS - TL514W/841 - 1350 LUMENS - 14 WATTS
Ballast/Driver: B228PUNV

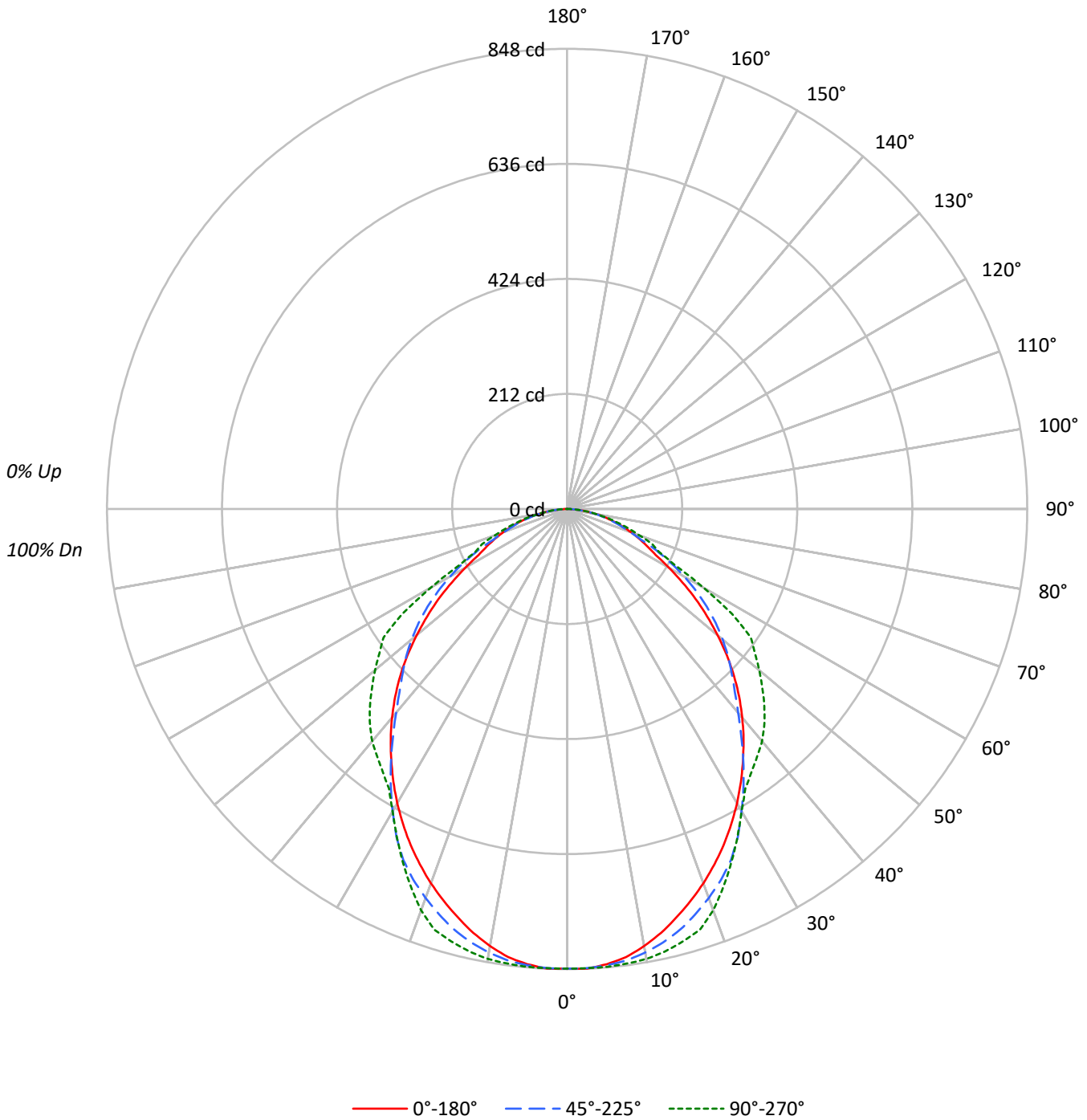
Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 1929.1 lumens
Efficiency: 71.4%
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.14 / 1.21
Luminous Opening: Rectangular (W 1.98' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	78	75	72	70	76	74	71	69	71	69	67	68	66	65	65	64	63	61
2	72	66	62	58	70	65	61	57	63	59	56	60	57	55	58	56	54	52
3	66	59	53	49	64	58	53	49	56	51	48	54	50	47	52	49	46	45
4	61	53	47	42	59	52	46	42	50	45	41	48	44	41	47	43	40	39
5	56	47	41	37	55	47	41	37	45	40	36	44	39	36	42	39	35	34
6	52	43	37	32	51	42	36	32	41	36	32	40	35	32	39	35	31	30
7	48	39	33	29	47	38	33	29	37	32	29	36	32	28	35	31	28	27
8	45	36	30	26	44	35	30	26	34	29	26	33	29	26	33	29	25	24
9	42	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	22
10	40	31	25	21	39	30	25	21	29	25	21	29	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327	2327	2327
5°	2323	2328	2336
10°	2282	2316	2349
15°	2216	2284	2347
20°	2146	2231	2301
25°	2071	2165	2174
30°	1986	2040	2040
35°	1895	1899	1986
40°	1801	1758	2005
45°	1690	1667	1997
50°	1548	1599	1975
55°	1385	1504	1979
60°	1187	1368	1594
65°	1060	1183	1209
70°	1004	980	1141
75°	945	902	1009
80°	855	823	839
85°	662	662	725



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	80.1	4.2	3.0	0°	847	847	847	847	847	
10°-20°	225.9	11.7	8.4	5°	842	843	844	845	847	80
20°-30°	324.2	16.8	12.0	15°	779	786	803	820	825	219
30°-40°	359.3	18.6	13.3	25°	683	695	714	715	717	314
40°-50°	350.9	18.2	13.0	35°	565	580	566	566	592	353
50°-60°	291.6	15.1	10.8	45°	435	442	429	476	514	334
60°-70°	178.0	9.2	6.6	55°	289	288	314	363	413	258
70°-80°	93.8	4.9	3.5	65°	163	159	182	180	186	164
80°-90°	25.3	1.3	0.9	75°	89	85	85	91	95	94
90°-100°	0.0	0.0	0.0	85°	21	21	21	23	23	25
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°	630.2	32.7	23.3							
0°-40°	989.5	51.3	36.6							
0°-60°	1632.0	84.6	60.4							
0°-90°	1929.1	100.0	71.4							
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°	1929.1	100.0	71.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847	847	847	847	847
2.5°	848	848	847	846	847
5°	842	843	844	845	847
7.5°	833	835	839	842	845
10°	818	822	830	838	842
12.5°	800	805	818	830	835
15°	779	786	803	820	825
17.5°	757	765	784	805	813
20°	734	743	763	785	787
22.5°	709	720	740	752	753
25°	683	695	714	715	717
27.5°	655	669	681	676	680
30°	626	641	643	637	643
32.5°	596	611	605	598	611
35°	565	580	566	566	592
37.5°	534	548	527	544	575
40°	502	516	490	523	559
42.5°	469	480	457	501	538
45°	435	442	429	476	514
47.5°	399	404	402	448	488
50°	362	365	374	421	462
52.5°	325	326	345	392	436
55°	289	288	314	363	413
57.5°	252	253	282	334	360
60°	216	218	249	282	290
62.5°	184	185	216	226	223
65°	163	159	182	180	186
67.5°	144	139	147	156	170
70°	125	120	122	135	142
72.5°	107	102	103	112	117
75°	89	85	85	91	95
77.5°	71	67	68	73	75
80°	54	51	52	53	53
82.5°	38	36	36	36	38
85°	21	21	21	23	23
87.5°	7	8	9	9	10
90°	0	0	0	0	0

(END OF REPORT)