

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: 241p111

Luminaire Tested: **2AC2-217PBW-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 241p111  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2AC2-217PBW-UNV-EB81  
Description: 2X2 2 LAMP 17W T8 TROFFER WITH FROSTED LENS AND WHITE PAINTED  
PARABOLIC LOUVER  
Light Source: TWO - PHILIPS -F17T8/TL841 - 1400 LUMENS - 17 WATTS  
Ballast/Driver: B232PUNV

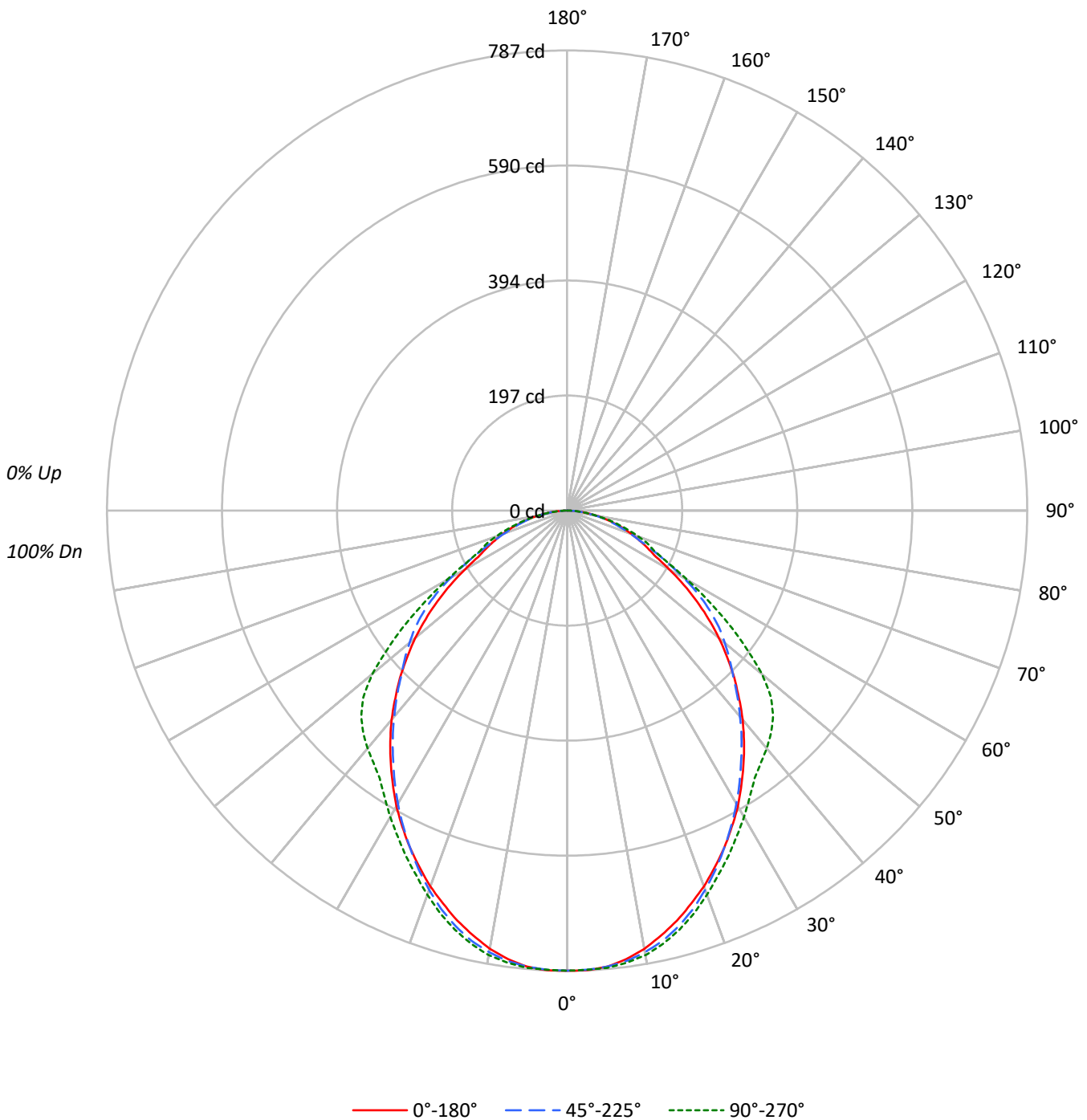
**Summary**

Lumens per Lamp: 1400 (2 lamps)  
Luminaire Lumens: 1775.9 lumens  
Efficiency: 63.4%  
Efficacy: 52.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.15 / 1.22  
Luminous Opening: Rectangular (W 1.98' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 34  
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	76	76	76	76	74	74	74	74	70	70	70	67	67	67	65	65	65	63
1	70	67	64	62	68	65	63	61	63	61	59	60	59	57	58	57	56	54
2	64	59	55	52	62	58	54	51	56	52	50	53	51	49	52	49	48	46
3	59	52	47	44	57	51	47	43	49	46	42	48	44	42	46	43	41	40
4	54	47	41	37	52	46	41	37	44	40	37	43	39	36	42	38	36	34
5	50	42	37	33	48	41	36	32	40	36	32	39	35	32	38	34	31	30
6	46	38	33	29	45	37	32	29	36	32	28	35	31	28	34	31	28	27
7	43	35	29	26	42	34	29	25	33	29	25	32	28	25	31	28	25	24
8	40	32	27	23	39	31	26	23	30	26	23	30	26	23	29	25	23	21
9	37	29	24	21	37	29	24	21	28	24	21	27	23	21	27	23	20	19
10	35	27	22	19	34	27	22	19	26	22	19	26	22	19	25	21	19	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2163	2163	2163
5°	2160	2160	2165
10°	2123	2140	2154
15°	2065	2094	2111
20°	2000	2018	2044
25°	1928	1928	1977
30°	1853	1837	1920
35°	1765	1741	1875
40°	1675	1650	1905
45°	1570	1562	1935
50°	1449	1505	1860
55°	1298	1428	1610
60°	1110	1264	1308
65°	988	1053	1073
70°	940	916	1044
75°	881	849	945
80°	807	791	807
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°	74.3	4.2	2.7	0°	787	787	787	787	787	
10°-20°	206.6	11.6	7.4	5°	783	783	783	784	785	74
20°-30°	295.0	16.6	10.5	15°	726	729	736	741	742	204
30°-40°	332.8	18.7	11.9	25°	636	640	636	644	652	293
40°-50°	328.7	18.5	11.7	35°	526	525	519	538	559	329
50°-60°	265.2	14.9	9.5	45°	404	398	402	457	498	311
60°-70°	161.0	9.1	5.8	55°	271	269	298	320	336	242
70°-80°	87.8	4.9	3.1	65°	152	148	162	162	165	152
80°-90°	24.6	1.4	0.9	75°	83	79	80	86	89	88
90°-100°	0.0	0.0	0.0	85°	21	21	21	22	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°	575.8	32.4	20.6							
0°-40°	908.6	51.2	32.5							
0°-60°	1502.5	84.6	53.7							
0°-90°	1775.9	100.0	63.4							
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°	1775.9	100.0	63.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	787	787	787	787	787
2.5°	787	787	786	786	786
5°	783	783	783	784	785
7.5°	774	775	777	779	780
10°	761	763	767	771	772
12.5°	744	747	754	758	759
15°	726	729	736	741	742
17.5°	705	709	715	720	722
20°	684	688	690	696	699
22.5°	660	665	664	670	675
25°	636	640	636	644	652
27.5°	610	613	608	617	628
30°	584	585	579	591	605
32.5°	555	555	549	564	581
35°	526	525	519	538	559
37.5°	497	493	490	513	544
40°	467	462	460	494	531
42.5°	435	430	431	476	516
45°	404	398	402	457	498
47.5°	371	365	377	434	473
50°	339	333	352	405	435
52.5°	305	301	327	365	386
55°	271	269	298	320	336
57.5°	237	237	266	276	285
60°	202	205	230	233	238
62.5°	171	174	195	195	195
65°	152	148	162	162	165
67.5°	134	130	135	141	150
70°	117	112	114	124	130
72.5°	100	95	96	104	109
75°	83	79	80	86	89
77.5°	67	63	64	69	71
80°	51	48	50	51	51
82.5°	36	34	34	35	36
85°	21	21	21	22	23
87.5°	8	8	9	10	10
90°	0	0	0	0	0

(END OF REPORT)