

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: 241p112

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 241p112
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2AC2-217PBI-UNV-EB81
Description: 2X2 2 LAMP 17W T8 TROFFER WITH FROSTED LENS AND SEMI SPECULAR
PARABOLIC LOUVER
Light Source: TWO - PHILIPS -F17T8/TL841 - 1400 LUMENS - 17 WATTS
Ballast/Driver: B232PUNV

Summary

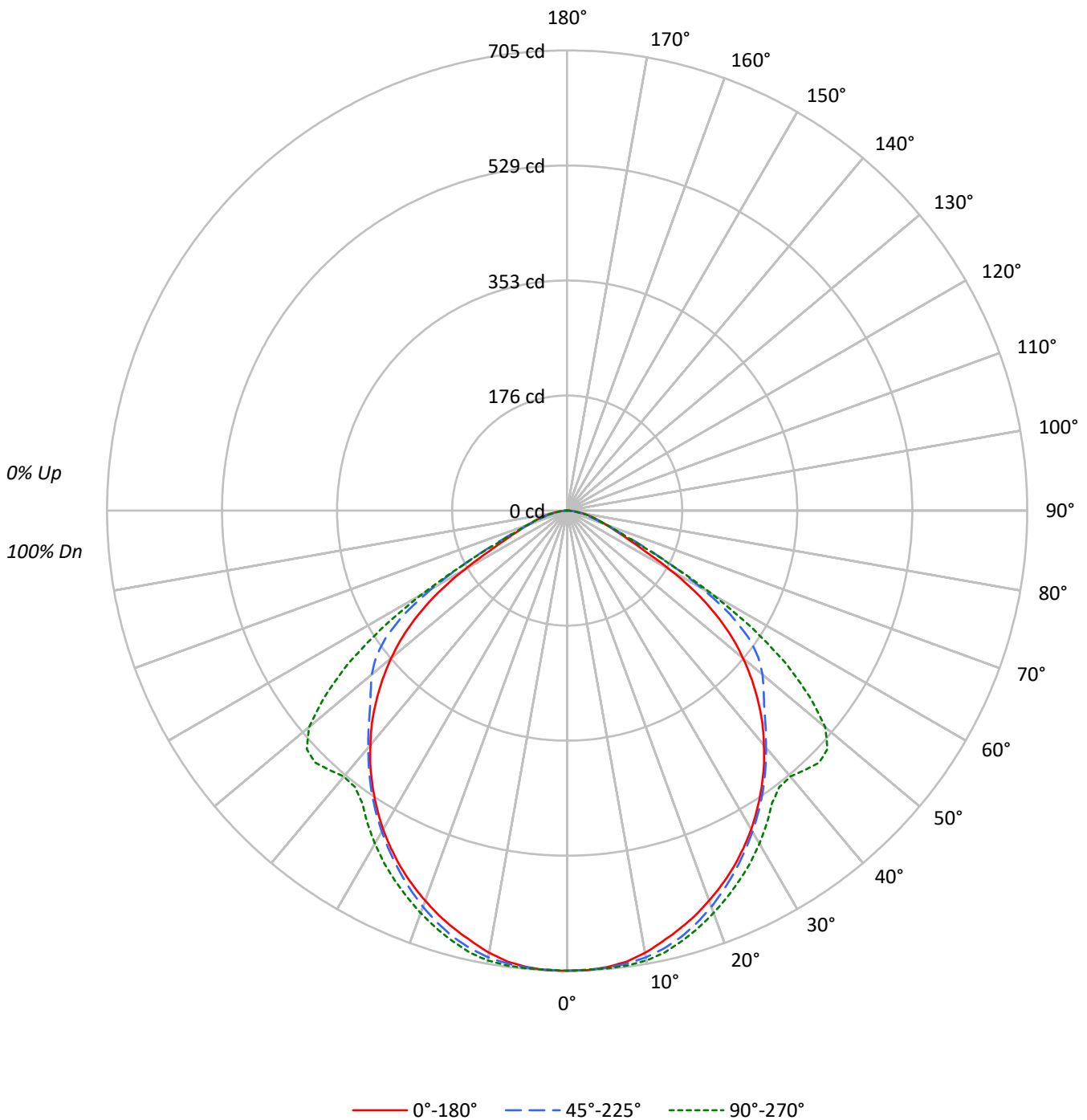
Lumens per Lamp: 1400 (2 lamps)
Luminaire Lumens: 1690.2 lumens
Efficiency: 60.4%
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.98' x L: 1.98' x H: 0')
CIE Type: Direct

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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	60
1	67	64	62	60	65	63	61	59	60	59	57	58	57	56	56	55	54	53
2	61	57	53	50	60	56	53	50	54	51	49	52	50	47	50	48	46	45
3	56	51	46	43	55	50	46	42	48	44	42	46	43	41	45	42	40	39
4	52	45	40	37	51	44	40	36	43	39	36	42	38	35	40	37	35	34
5	48	41	36	32	47	40	35	32	39	35	31	38	34	31	36	33	31	29
6	44	37	32	28	43	36	31	28	35	31	28	34	30	27	33	30	27	26
7	41	33	28	25	40	33	28	25	32	28	25	31	27	24	30	27	24	23
8	38	30	26	22	37	30	25	22	29	25	22	29	25	22	28	24	22	21
9	36	28	23	20	35	28	23	20	27	23	20	26	22	20	26	22	20	19
10	34	26	21	18	33	26	21	18	25	21	18	24	21	18	24	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1937	1937	1937
5°	1936	1939	1942
10°	1920	1939	1953
15°	1889	1923	1940
20°	1860	1889	1918
25°	1828	1846	1895
30°	1790	1802	1869
35°	1741	1754	1835
40°	1682	1700	1908
45°	1609	1659	2122
50°	1505	1672	2206
55°	1337	1624	1964
60°	1011	1319	1412
65°	657	806	761
70°	514	482	522
75°	435	382	425
80°	364	316	316
85°	252	221	252



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.8	4.0	2.4	0°	705	705	705	705	705	
10°-20°	190.1	11.2	6.8	5°	702	703	703	704	704	67
20°-30°	282.1	16.7	10.1	15°	664	669	676	681	682	187
30°-40°	330.9	19.6	11.8	25°	603	609	609	618	625	278
40°-50°	349.1	20.7	12.5	35°	519	521	523	534	547	324
50°-60°	295.5	17.5	10.6	45°	414	414	427	492	546	319
60°-70°	125.1	7.4	4.5	55°	279	289	339	379	410	245
70°-80°	41.4	2.5	1.5	65°	101	104	124	123	117	108
80°-90°	9.2	0.5	0.3	75°	41	37	36	38	40	44
90°-100°	0.0	0.0	0.0	85°	8	7	7	7	8	10
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°	539.0	31.9	19.3							
0°-40°	869.9	51.5	31.1							
0°-60°	1514.5	89.6	54.1							
0°-90°	1690.2	100.0	60.4							
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°	1690.2	100.0	60.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705	705	705	705	705
2.5°	705	705	704	704	704
5°	702	703	703	704	704
7.5°	697	698	700	702	703
10°	688	690	695	698	700
12.5°	676	680	687	692	693
15°	664	669	676	681	682
17.5°	651	656	662	668	670
20°	636	642	646	653	656
22.5°	620	626	628	636	641
25°	603	609	609	618	625
27.5°	584	590	589	599	608
30°	564	569	568	579	589
32.5°	542	546	546	557	569
35°	519	521	523	534	547
37.5°	495	496	499	512	534
40°	469	470	474	498	532
42.5°	443	442	450	493	539
45°	414	414	427	492	546
47.5°	384	385	408	487	541
50°	352	354	391	470	516
52.5°	318	323	369	433	468
55°	279	289	339	379	410
57.5°	235	250	296	317	338
60°	184	202	240	248	257
62.5°	134	148	179	180	177
65°	101	104	124	123	117
67.5°	79	77	84	87	85
70°	64	60	60	66	65
72.5°	52	48	46	50	51
75°	41	37	36	38	40
77.5°	32	28	28	29	30
80°	23	20	20	20	20
82.5°	15	14	13	12	13
85°	8	7	7	7	8
87.5°	3	3	3	3	3
90°	0	0	0	0	0

(END OF REPORT)