

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: 119P163

Luminaire Tested: **2HP2GX-217W23P-EB81/PLUS**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 119P163  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2HP2GX-217W23P-EB81/PLUS  
Description: FORMED WHITE HIGH-REFLECTANCE PRE-PAINT STEEL HOUSING &  
COMPONENTS, NO REFLECTOR, 6 CELL, 2" DEEP, FORMED WHITE ALUMINUM  
LOUVER, TALL SKTS  
Light Source: TWO LINEAR FLUORESCENT LAMPS, F17T8/TL835 17W - 1450 LUMENS EA  
Ballast/Driver: -

**Summary**

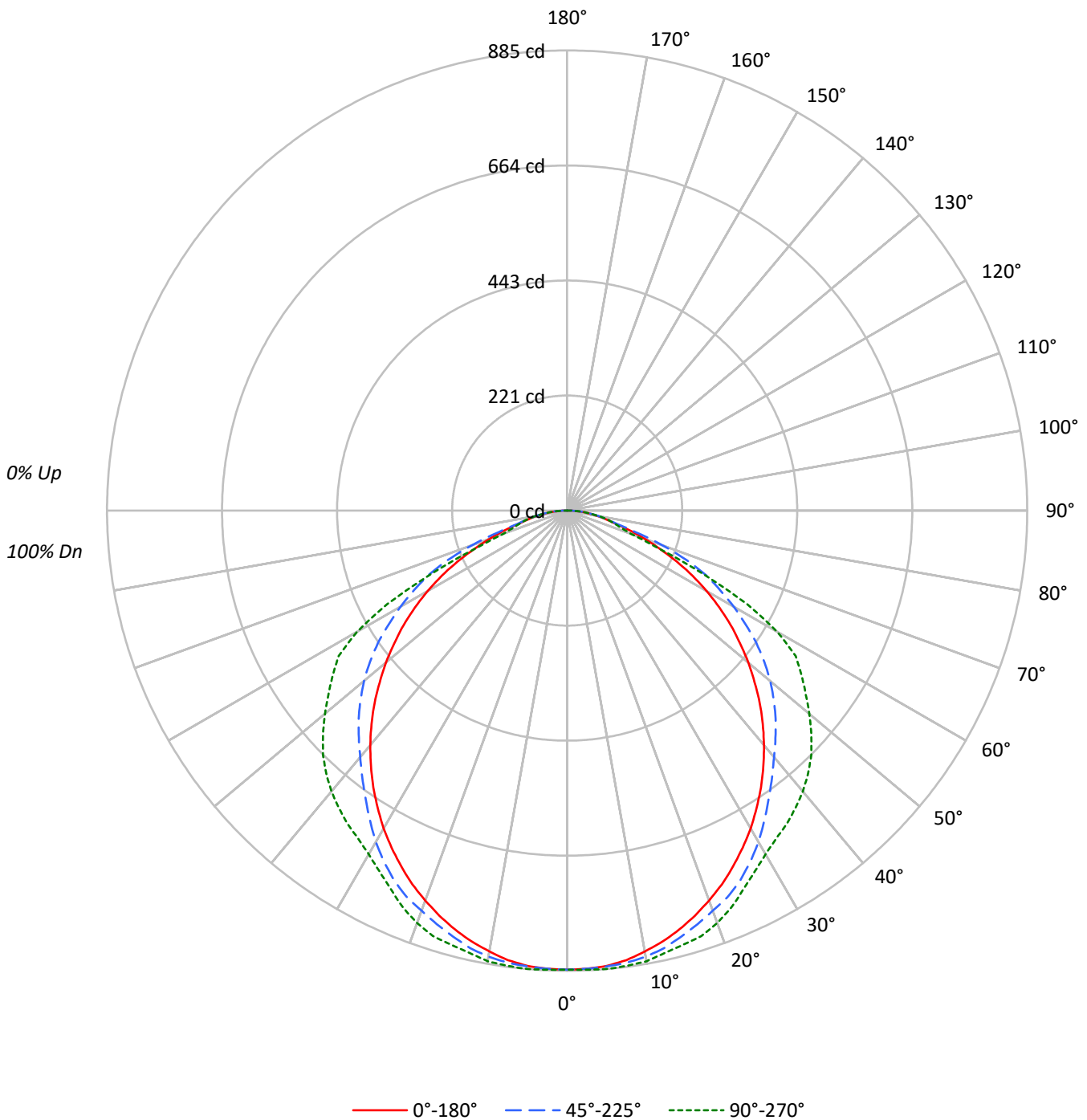
Lumens per Lamp: 1450 (2 lamps)  
Luminaire Lumens: 2374.2 lumens  
Efficiency: 81.9%  
Efficacy: 57.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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									
RC	80									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	50	30	10	0													
RCR																																					
0	97	97	97	97	95	95	95	95	91	91	91	87	87	87	84	84	84	82																			
1	90	86	83	80	87	84	81	78	81	78	76	77	75	74	74	73	71	70																			
2	82	75	70	65	80	74	69	65	71	67	63	68	65	62	66	63	60	59																			
3	75	66	60	55	73	65	59	54	63	58	53	60	56	52	58	55	51	50																			
4	68	59	52	47	67	58	51	46	56	50	46	54	49	45	52	48	44	43																			
5	63	53	45	40	61	52	45	40	50	44	39	48	43	39	47	42	39	37																			
6	58	47	40	35	57	47	40	35	45	39	35	44	38	34	43	38	34	32																			
7	54	43	36	31	53	42	36	31	41	35	31	40	34	30	39	34	30	29																			
8	50	39	32	28	49	39	32	28	38	32	27	37	31	27	36	31	27	25																			
9	47	36	29	25	46	36	29	25	35	29	25	34	28	25	33	28	24	23																			
10	44	33	27	23	43	33	27	22	32	26	22	31	26	22	31	26	22	21																			

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

	0°	45°	90°
0°	3031	3031	3031
5°	3029	3032	3049
10°	3001	3036	3067
15°	2964	3013	3070
20°	2915	2992	3083
25°	2859	2977	3041
30°	2798	2917	3024
35°	2724	2833	3084
40°	2639	2774	3159
45°	2544	2752	3223
50°	2430	2723	3247
55°	2298	2657	3291
60°	2128	2540	3206
65°	1892	2396	2339
70°	1586	1957	1305
75°	1247	1313	1233
80°	1166	1206	1245
85°	1142	1182	1142



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	83.8	3.5	2.9	0°	883	883	883	883	883	
10°-20°	239.7	10.1	8.3	5°	879	879	880	883	885	83
20°-30°	359.7	15.2	12.4	15°	834	839	848	858	864	235
30°-40°	429.3	18.1	14.8	25°	755	764	786	797	803	348
40°-50°	448.4	18.9	15.5	35°	650	664	676	709	736	406
50°-60°	402.4	16.9	13.9	45°	524	540	567	629	664	404
60°-70°	270.0	11.4	9.3	55°	384	386	444	506	550	342
70°-80°	108.5	4.6	3.7	65°	233	245	295	303	288	231
80°-90°	32.5	1.4	1.1	75°	94	103	99	93	93	106
90°-100°	0.0	0.0	0.0	85°	29	29	30	29	29	32
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°	683.1	28.8	23.6							
0°-40°	1112.4	46.9	38.4							
0°-60°	1963.2	82.7	67.7							
0°-90°	2374.2	100.0	81.9							
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°	2374.2	100.0	81.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	883	883	883	883	883
2.5°	882	882	882	883	884
5°	879	879	880	883	885
7.5°	872	872	877	881	883
10°	861	864	871	877	880
12.5°	849	853	862	868	871
15°	834	839	848	858	864
17.5°	817	824	834	851	858
20°	798	806	819	839	844
22.5°	778	786	805	819	826
25°	755	764	786	797	803
27.5°	731	740	762	771	782
30°	706	715	736	748	763
32.5°	678	689	706	727	748
35°	650	664	676	709	736
37.5°	620	637	647	692	721
40°	589	608	619	673	705
42.5°	557	575	593	652	686
45°	524	540	567	629	664
47.5°	489	503	539	601	637
50°	455	463	510	571	608
52.5°	419	424	478	539	578
55°	384	386	444	506	550
57.5°	347	348	407	473	521
60°	310	314	370	438	467
62.5°	272	280	332	379	390
65°	233	245	295	303	288
67.5°	194	208	249	216	191
70°	158	172	195	145	130
72.5°	125	136	138	109	107
75°	94	103	99	93	93
77.5°	75	77	78	78	79
80°	59	60	61	62	63
82.5°	44	44	45	45	45
85°	29	29	30	29	29
87.5°	15	15	16	15	14
90°	0	0	0	0	0

(END OF REPORT)