

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: 220p234

Luminaire Tested: **2P2GX-214S23I-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 220p234
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-214S23I-EB81
Description: 2X2 EP2GX RECESSED LUMINAIRE WITH 12 CELL SILVER PARABOLIC LOUVER
Light Source: TWO LINEAR FLUORESCENT LAMPS, F14T5 15W - 1300 LUMENS EA
Ballast/Driver: -

Summary

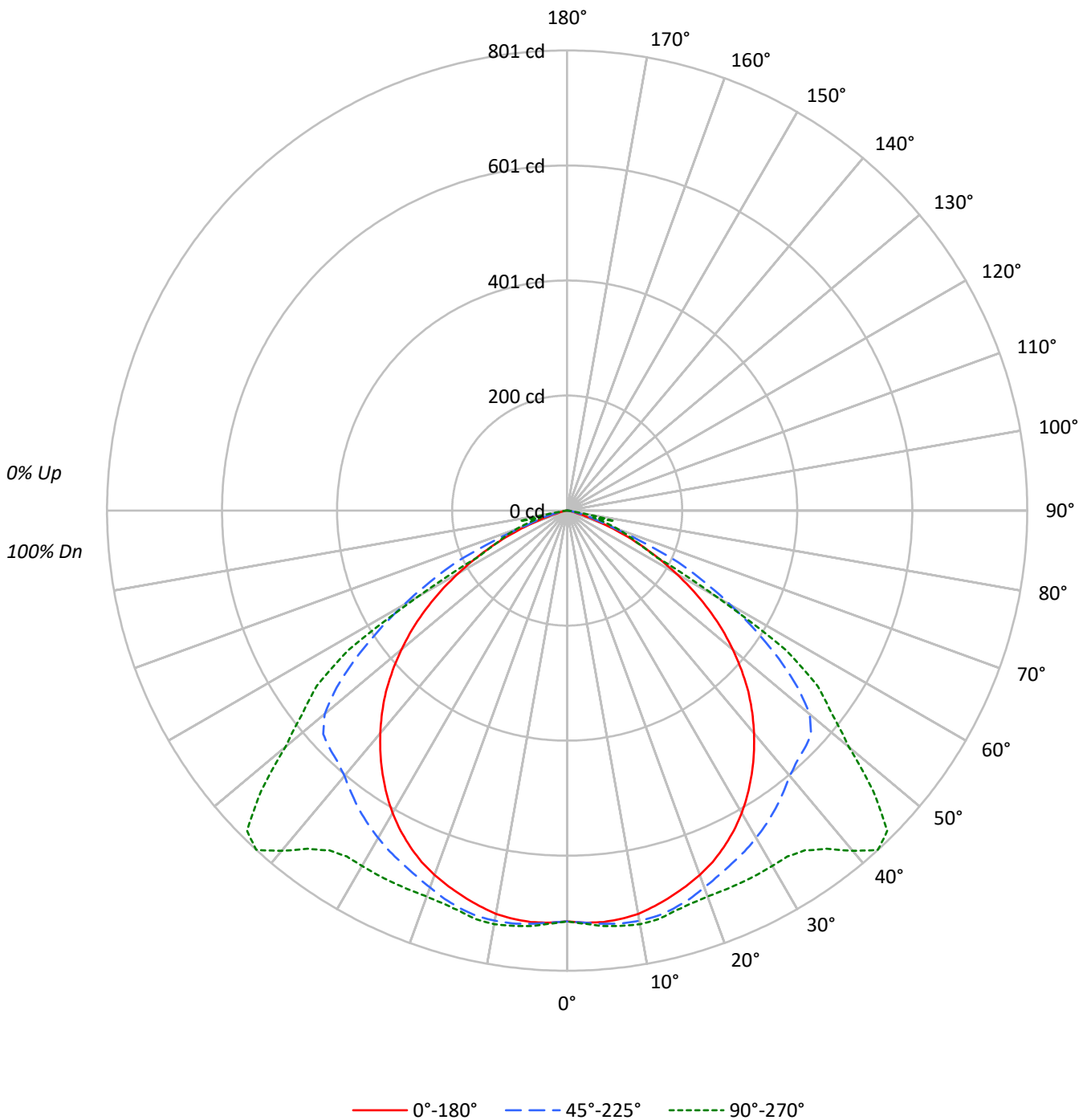
Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2039.3 lumens
Efficiency: 78.4%
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.62 / 1.55
Luminous Opening: Rectangular (W 1.75' x L: 1.83' x H: 0')
CIE Type: Direct

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										
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	50	30	10	50	30	10	0														
RCR																																						
0	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	80	80	80	80	80	80	78														
1	87	83	81	78	85	82	79	77	78	76	74	75	74	72	73	71	70	70	70	70	70	70	70	68														
2	79	74	69	65	78	72	68	64	70	66	63	67	64	61	65	62	60	60	60	60	60	60	60	58														
3	73	65	59	55	71	64	59	54	62	57	53	60	56	52	58	54	51	51	51	51	51	51	51	50														
4	67	58	52	47	65	57	51	46	55	50	46	53	49	45	52	48	44	44	44	44	44	44	44	43														
5	61	52	45	40	60	51	45	40	49	44	40	48	43	39	46	42	39	39	39	39	39	39	39	37														
6	57	47	40	35	55	46	40	35	45	39	35	43	38	34	42	38	34	34	34	34	34	34	34	32														
7	52	42	36	31	51	42	35	31	40	35	31	39	34	30	38	34	30	30	30	30	30	30	30	29														
8	49	38	32	27	48	38	32	27	37	31	27	36	31	27	35	30	27	27	27	27	27	27	27	25														
9	45	35	29	25	44	35	29	25	34	28	24	33	28	24	32	28	24	24	24	24	24	24	24	23														
10	43	32	26	22	42	32	26	22	31	26	22	30	25	22	30	25	22	22	22	22	22	22	22	21														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2421	2432	2445
10°	2429	2470	2490
15°	2417	2490	2508
20°	2410	2492	2553
25°	2391	2510	2647
30°	2355	2549	2766
35°	2294	2593	2957
40°	2216	2641	3385
45°	2116	2776	3739
50°	1968	2876	3340
55°	1761	2632	3112
60°	1469	2201	2020
65°	1103	1699	1096
70°	628	736	922
75°	220	428	609
80°	135	174	213
85°	115	154	154



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	68.9	3.4	2.7	0°	715	715	715	715	715	
10°-20°	201.5	9.9	7.8	5°	719	719	722	724	726	68
20°-30°	314.6	15.4	12.1	15°	696	705	717	722	722	197
30°-40°	400.4	19.6	15.4	25°	646	663	678	705	715	297
40°-50°	457.1	22.4	17.6	35°	560	584	633	688	722	350
50°-60°	378.5	18.6	14.6	45°	446	479	585	733	788	343
60°-70°	171.1	8.4	6.6	55°	301	351	450	498	532	268
70°-80°	42.6	2.1	1.6	65°	139	174	214	128	138	138
80°-90°	4.5	0.2	0.2	75°	17	24	33	42	47	26
90°-100°	0.0	0.0	0.0	85°	3	3	4	4	4	3
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°	585.0	28.7	22.5							
0°-40°	985.4	48.3	37.9							
0°-60°	1821.0	89.3	70.0							
0°-90°	2039.3	100.0	78.4							
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°	2039.3	100.0	78.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715	715	715	715	715
2.5°	718	717	718	718	720
5°	719	719	722	724	726
7.5°	717	719	725	728	729
10°	713	717	725	729	731
12.5°	705	712	723	728	729
15°	696	705	717	722	722
17.5°	686	697	709	714	717
20°	675	687	698	710	715
22.5°	662	676	688	707	715
25°	646	663	678	705	715
27.5°	628	647	669	700	715
30°	608	629	658	696	714
32.5°	585	607	646	691	714
35°	560	584	633	688	722
37.5°	534	559	618	692	742
40°	506	534	603	707	773
42.5°	477	507	592	727	801
45°	446	479	585	733	788
47.5°	412	451	576	695	723
50°	377	421	551	627	640
52.5°	340	388	506	557	581
55°	301	351	450	498	532
57.5°	261	309	390	444	451
60°	219	265	328	355	301
62.5°	178	219	270	216	173
65°	139	174	214	128	138
67.5°	100	129	137	105	116
70°	64	87	75	84	94
72.5°	37	52	52	63	69
75°	17	24	33	42	47
77.5°	11	13	17	35	84
80°	7	9	9	18	11
82.5°	5	5	6	6	7
85°	3	3	4	4	4
87.5°	1	1	2	2	2
90°	0	0	0	0	0

(END OF REPORT)