

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: 220p233

Luminaire Tested: **2P2GX-214S34I-120**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 220p233
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-214S34I-120
Description: 2X2 P2GX RECESSED LUMINAIRE WITH 12 CELL SILVER PARABOLIC
LOUVER,
Light Source: TWO 2' T5 LINEAR FLUORESCENT LAMPS, F14T5 15W - 1300 LUMENS EA
Ballast/Driver: -

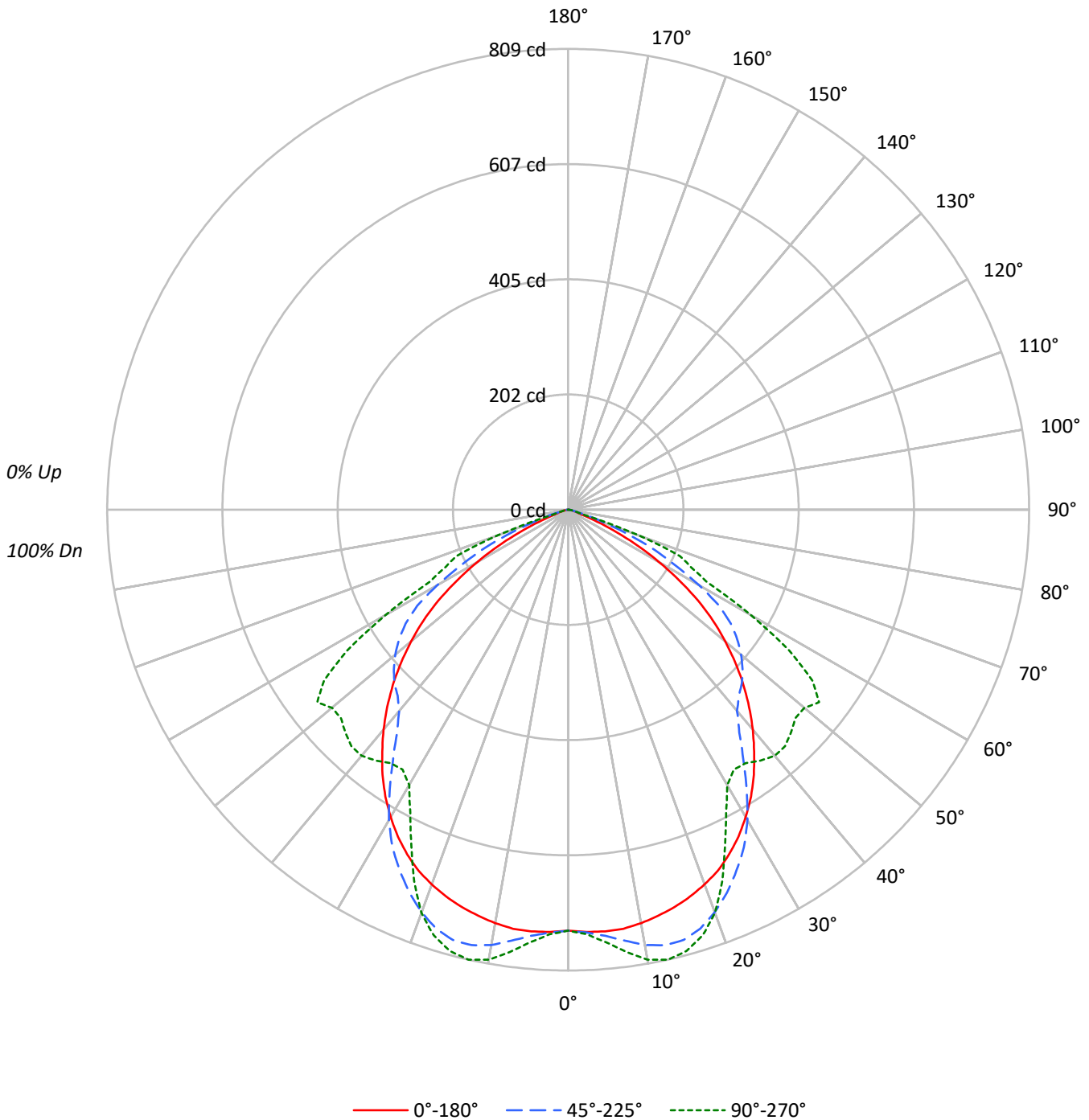
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1823.4 lumens
Efficiency: 70.1%
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.14 / 1.28
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				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	83	83	83	83	82	82	82	82	78	78	78	75	75	75	72	72	72	70
1	78	75	72	70	76	73	71	69	70	69	67	68	66	65	65	64	63	62
2	71	66	62	59	70	65	61	58	63	60	57	60	58	56	58	56	54	53
3	66	59	54	50	64	58	53	49	56	52	49	54	51	48	52	49	47	46
4	60	53	47	43	59	52	47	43	50	46	42	49	45	41	47	44	41	39
5	56	47	42	37	54	47	41	37	45	40	37	44	40	36	43	39	36	34
6	52	43	37	33	50	42	37	33	41	36	32	40	35	32	39	35	32	30
7	48	39	33	29	47	38	33	29	37	32	29	36	32	29	35	31	28	27
8	45	36	30	26	44	35	30	26	34	29	26	33	29	26	33	28	25	24
9	42	33	27	23	41	32	27	23	32	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	29	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2479	2479	2479
5°	2502	2529	2566
10°	2511	2644	2732
15°	2508	2716	2786
20°	2499	2685	2688
25°	2473	2588	2410
30°	2414	2437	2162
35°	2326	2195	2224
40°	2207	2019	2470
45°	2064	2045	2624
50°	1879	2067	2824
55°	1626	2036	3059
60°	1241	1778	2489
65°	754	1326	1881
70°	265	677	1275
75°	169	220	169
80°	97	135	135
85°	77	115	115



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	72.4	4.0	2.8	0°	739	739	739	739	739	
10°-20°	216.8	11.9	8.3	5°	743	745	751	757	762	71
20°-30°	312.7	17.1	12.0	15°	722	745	782	798	802	204
30°-40°	345.3	18.9	13.3	25°	668	696	699	674	651	307
40°-50°	360.9	19.8	13.9	35°	568	581	536	518	543	354
50°-60°	322.9	17.7	12.4	45°	435	443	431	510	553	334
60°-70°	163.3	9.0	6.3	55°	278	281	348	455	523	246
70°-80°	25.9	1.4	1.0	65°	95	112	167	192	237	97
80°-90°	3.3	0.2	0.1	75°	13	15	17	16	13	14
90°-100°	0.0	0.0	0.0	85°	2	2	3	3	3	2
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°	601.9	33.0	23.1							
0°-40°	947.1	51.9	36.4							
0°-60°	1630.9	89.4	62.7							
0°-90°	1823.4	100.0	70.1							
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°	1823.4	100.0	70.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739	739	739	739	739
2.5°	742	742	743	744	746
5°	743	745	751	757	762
7.5°	742	748	763	777	783
10°	737	749	776	795	802
12.5°	730	749	783	803	809
15°	722	745	782	798	802
17.5°	712	739	771	783	784
20°	700	729	752	758	753
22.5°	686	715	728	721	706
25°	668	696	699	674	651
27.5°	647	672	668	620	600
30°	623	644	629	570	558
32.5°	597	613	583	533	541
35°	568	581	536	518	543
37.5°	536	548	493	518	555
40°	504	514	461	521	564
42.5°	470	479	443	519	563
45°	435	443	431	510	553
47.5°	398	404	415	493	541
50°	360	363	396	477	541
52.5°	321	322	374	472	555
55°	278	281	348	455	523
57.5°	231	239	314	404	460
60°	185	198	265	348	371
62.5°	140	157	213	266	273
65°	95	112	167	192	237
67.5°	55	71	117	155	212
70°	27	38	69	117	130
72.5°	18	22	40	45	28
75°	13	15	17	16	13
77.5°	8	10	11	10	9
80°	5	7	7	7	7
82.5°	3	4	5	5	5
85°	2	2	3	3	3
87.5°	1	1	2	2	1
90°	0	0	0	0	0

(END OF REPORT)