

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: 14324

Luminaire Tested: **PGX2024-2U3S23I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14324  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX2024-2U3S23I  
Description: WHITE INTERIOR AND 4" DEEP 6 CELL SEMI-SPECULAR LOW IRIDESCENT  
PARABOLIC LOUVER  
Light Source: TWO GE 40 WATT U - LAMPS  
  
F40CW-U-3-WM. LUMEN RATING = 2300 LMS.  
  
Ballast/Driver: -

**Summary**

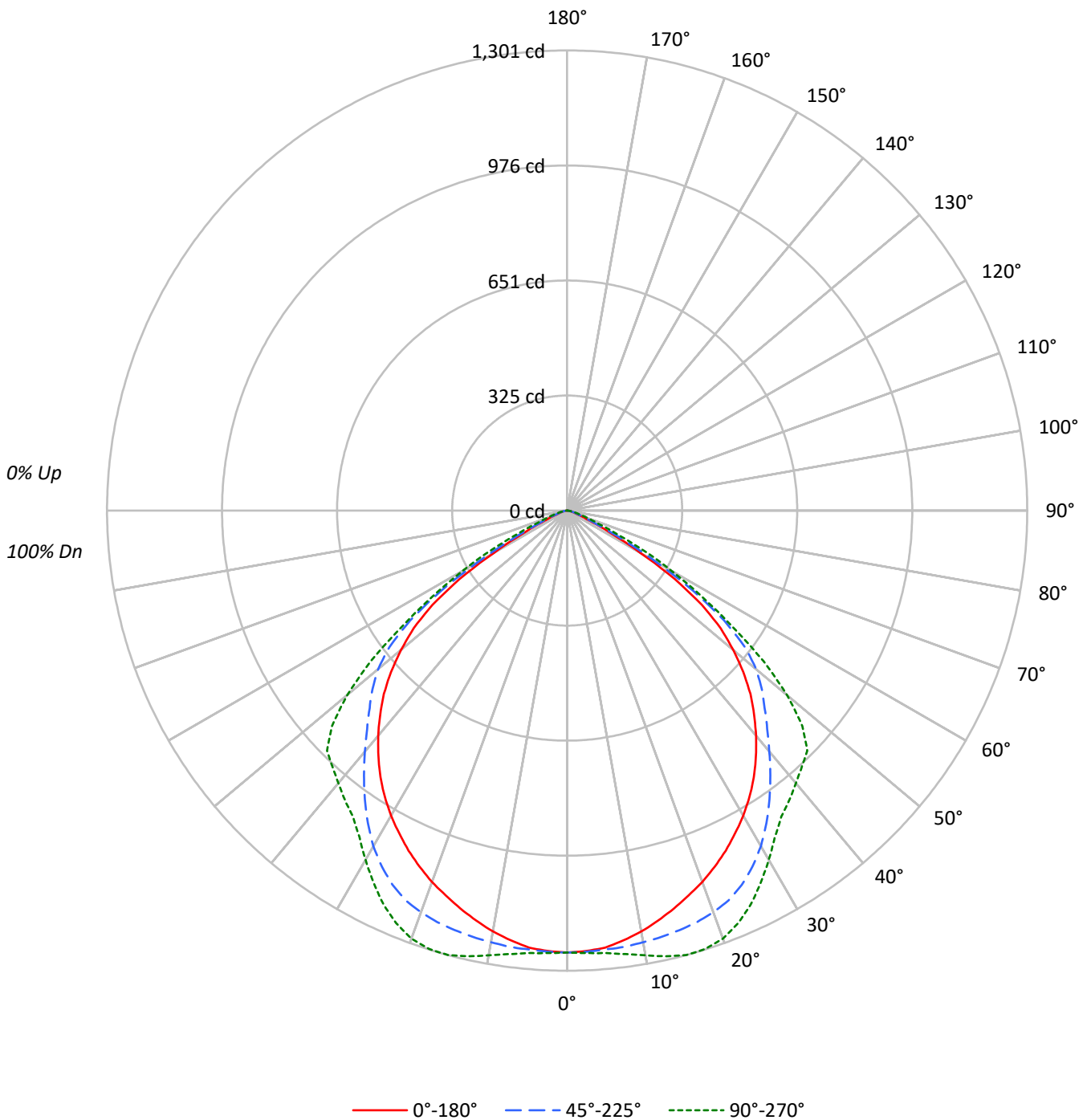
Lumens per Lamp: 2300 (2 lamps)  
Luminaire Lumens: 2861.9 lumens  
Efficiency: 62.2%  
Efficacy: 45.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.35  
Luminous Opening: Rectangular (W 1.41' x L: 1.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63  
Input Voltage (V): NR  
Input 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



TEST NUMBER: 14324

CATALOG NUMBER: PGX2024-2U3S23I

### Luminous Intensity Polar Plot





TEST NUMBER: 14324

CATALOG NUMBER: PGX2024-2U3S23I

**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	74	74	74	74	72	72	72	72	69	69	69	66	66	66	63	63	63	62
1	69	67	65	63	68	66	64	62	63	61	60	61	59	58	58	57	56	55
2	64	60	56	54	63	59	56	53	57	54	52	55	52	51	53	51	49	48
3	59	54	49	46	58	53	49	46	51	48	45	49	46	44	48	45	43	42
4	55	48	43	40	53	47	43	40	46	42	39	44	41	39	43	40	38	37
5	51	43	38	35	49	43	38	35	42	37	34	40	37	34	39	36	34	32
6	47	39	34	31	46	39	34	31	38	33	30	37	33	30	36	32	30	29
7	44	36	31	27	43	35	31	27	34	30	27	34	30	27	33	29	27	26
8	41	33	28	25	40	32	28	24	32	27	24	31	27	24	30	27	24	23
9	38	30	25	22	37	30	25	22	29	25	22	28	25	22	28	24	22	21
10	36	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19

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

	0°	45°	90°
0°	5450	5450	5450
5°	5431	5454	5499
10°	5353	5488	5656
15°	5262	5545	5875
20°	5187	5610	5979
25°	5106	5620	5915
30°	5016	5519	5744
35°	4901	5310	5623
40°	4732	5065	5728
45°	4519	4872	5923
50°	4158	4733	5511
55°	3537	4118	4309
60°	2098	2537	2979
65°	813	982	1525
70°	402	492	768
75°	292	335	470
80°	266	234	279
85°	180	200	225



TEST NUMBER: 14324

CATALOG NUMBER: PGX2024-2U3S23I

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	118.9	4.2	2.6	0°	1249	1249	1249	1249	1249	
10°-20°	347.6	12.1	7.6	5°	1240	1242	1246	1253	1256	117
20°-30°	530.5	18.5	11.5	15°	1165	1181	1228	1281	1301	329
30°-40°	622.0	21.7	13.5	25°	1061	1100	1168	1205	1229	489
40°-50°	629.6	22.0	13.7	35°	920	974	997	1013	1056	574
50°-60°	455.3	15.9	9.9	45°	732	771	790	880	960	561
60°-70°	129.1	4.5	2.8	55°	465	489	541	534	567	400
70°-80°	23.7	0.8	0.5	65°	79	93	95	139	148	99
80°-90°	5.1	0.2	0.1	75°	17	17	20	24	28	20
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	4	5
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°	996.9	34.8	21.7							
0°-40°	1619.0	56.6	35.2							
0°-60°	2703.9	94.5	58.8							
0°-90°	2861.9	100.0	62.2							
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°	2861.9	100.0	62.2							



TEST NUMBER: 14324

CATALOG NUMBER: PGX2024-2U3S23I

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1249.4	1249.4	1249.4	1249.4	1249.4
2.5°	1246.4	1247.7	1248.2	1250.0	1252.2
5°	1240.2	1242.4	1245.6	1253.0	1255.8
7.5°	1225.2	1231.0	1244.2	1258.3	1264.6
10°	1208.5	1215.9	1238.9	1266.4	1276.9
12.5°	1187.3	1200.1	1234.5	1274.8	1290.7
15°	1165.1	1181.4	1227.9	1281.4	1300.8
17.5°	1140.8	1163.7	1220.0	1280.4	1299.4
20°	1117.3	1144.0	1208.4	1265.5	1287.9
22.5°	1089.9	1122.7	1192.9	1240.7	1262.8
25°	1060.8	1099.7	1167.7	1204.9	1228.8
27.5°	1028.6	1072.8	1134.5	1161.6	1185.5
30°	995.8	1044.5	1095.7	1112.5	1140.3
32.5°	959.6	1010.5	1048.5	1062.5	1093.5
35°	920.3	973.7	997.1	1012.7	1055.9
37.5°	876.5	929.9	943.7	972.9	1032.0
40°	831.0	880.4	889.4	943.7	1005.9
42.5°	782.4	828.8	837.1	912.7	982.2
45°	732.5	771.4	789.8	880.0	960.1
47.5°	675.0	710.8	746.5	834.5	902.0
50°	612.7	643.6	697.4	758.9	812.0
52.5°	546.8	572.0	633.5	658.2	699.7
55°	465.0	489.3	541.4	534.4	566.6
57.5°	360.3	390.8	423.0	412.1	449.5
60°	240.5	272.0	290.8	305.9	341.4
62.5°	144.2	165.8	175.1	214.1	242.3
65°	78.8	93.3	95.1	139.4	147.7
67.5°	46.5	51.4	55.4	80.5	88.0
70°	31.5	33.2	38.6	49.2	60.2
72.5°	23.5	23.4	26.1	34.6	40.8
75°	17.3	17.3	19.9	23.5	27.9
77.5°	12.9	12.4	13.3	16.4	19.1
80°	10.6	9.8	9.3	9.8	11.1
82.5°	7.6	6.7	7.1	6.7	6.3
85°	3.6	4.5	4.0	3.6	4.5
87.5°	2.8	3.2	3.6	1.8	1.8
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)