

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: 150P127

Luminaire Tested: **P2GX-232S113I**

Issue Date: 3/3/2020



**Test Information**

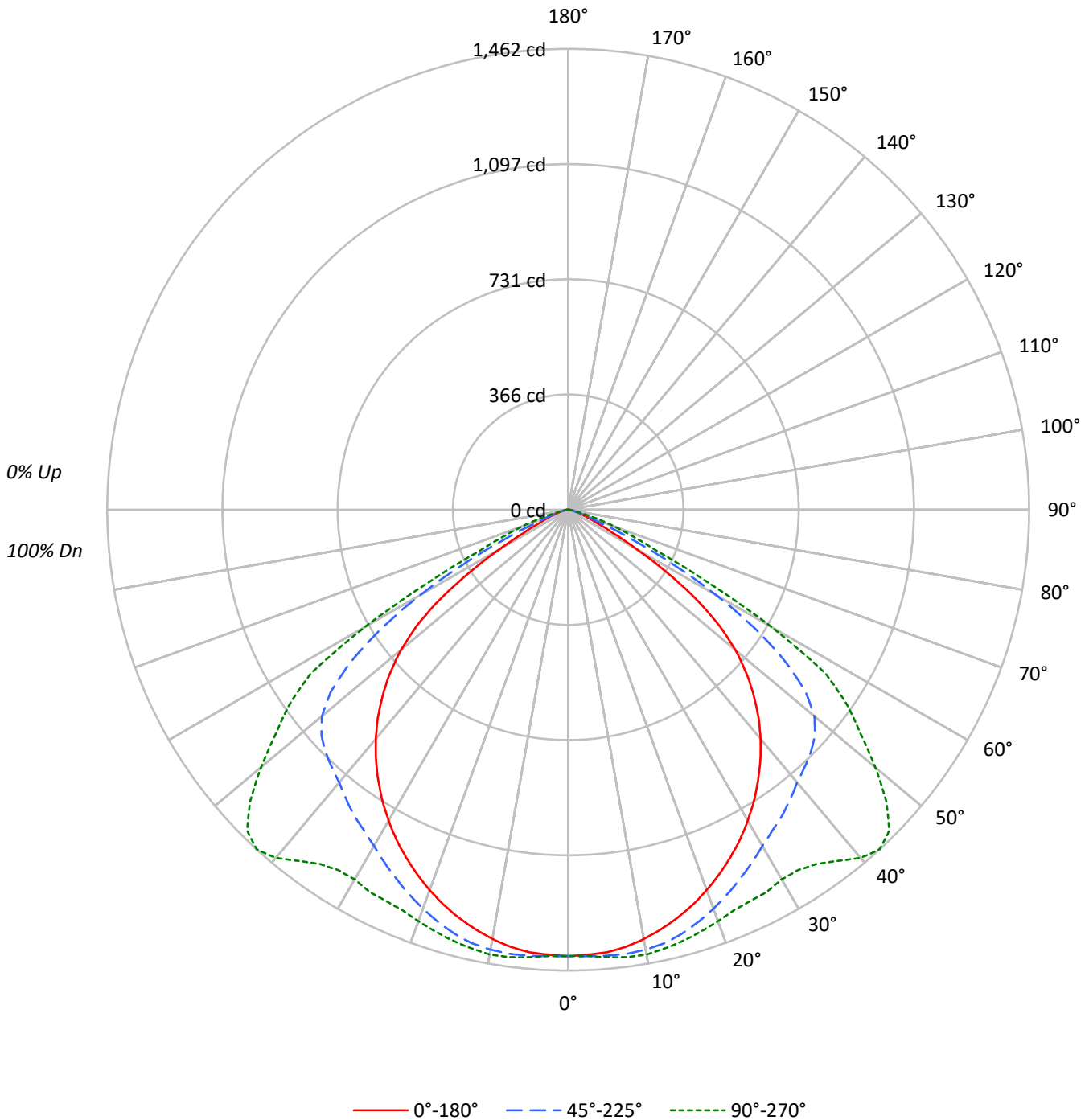
Test Method: LM-41-14  
Report Number: 150P127  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: P2GX-232S113I  
Description: 1 X 4 Recessed Convertible Body Luminaire with a 2"  
deep 13 cell semi-specular low iridescent parabolic louver.  
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic L.O.B.F. = 88.22%

**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3726.5 lumens  
Efficiency: 66.5%  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.52 / 1.5  
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 57.4  
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	79	79	79	79	77	77	77	77	74	74	74		71	71	71		68	68	68	67
1	74	71	69	67	72	70	68	66	67	65	64		64	63	62		62	61	60	59
2	68	63	59	56	66	62	58	55	60	57	54		58	55	53		56	54	52	50
3	62	56	51	47	61	55	51	47	53	49	46		51	48	45		50	47	45	43
4	57	50	45	41	56	49	44	40	48	43	40		46	42	39		45	41	39	37
5	53	45	39	35	51	44	39	35	43	38	35		41	37	34		40	37	34	33
6	49	40	35	31	48	40	34	31	39	34	30		37	33	30		36	33	30	29
7	45	37	31	27	44	36	31	27	35	30	27		34	30	27		33	29	26	25
8	42	33	28	24	41	33	28	24	32	27	24		31	27	24		30	27	24	22
9	39	31	25	22	38	30	25	22	29	25	22		29	24	21		28	24	21	20
10	37	28	23	20	36	28	23	20	27	23	19		27	22	19		26	22	19	18

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

	0°	45°	90°
0°	5480	5480	5480
5°	5474	5517	5536
10°	5435	5569	5632
15°	5369	5581	5670
20°	5288	5548	5721
25°	5197	5513	5846
30°	5090	5506	6051
35°	4961	5594	6482
40°	4795	5709	7285
45°	4554	5955	7882
50°	4167	6135	7659
55°	3360	5681	7294
60°	1958	4203	5767
65°	934	2051	2866
70°	588	769	1743
75°	419	404	718
80°	312	267	312
85°	222	178	222



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	135.3	3.6	2.4	0°	1416	1416	1416	1416	1416	
10°-20°	391.2	10.5	7.0	5°	1409	1412	1420	1427	1425	134
20°-30°	598.2	16.1	10.7	15°	1340	1361	1393	1414	1415	378
30°-40°	752.9	20.2	13.4	25°	1217	1253	1291	1344	1369	560
40°-50°	851.4	22.8	15.2	35°	1050	1098	1184	1298	1372	656
50°-60°	703.1	18.9	12.6	45°	832	914	1088	1324	1440	638
60°-70°	247.1	6.6	4.4	55°	498	635	842	956	1081	433
70°-80°	41.5	1.1	0.7	65°	102	139	224	297	313	119
80°-90°	5.9	0.2	0.1	75°	28	30	27	36	48	31
90°-100°	0.0	0.0	0.0	85°	5	5	4	5	5	6
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1124.6	30.2	20.1	165°	0	0	0	0	0	0
0°-40°	1877.5	50.4	33.5	175°	0	0	0	0	0	0
0°-60°	3432.0	92.1	61.3	180°	0	0	0	0	0	0
0°-90°	3726.5	100.0	66.5							
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°	3726.5	100.0	66.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1416	1416	1416	1416	1416
2.5°	1413	1414	1418	1421	1417
5°	1409	1412	1420	1427	1425
7.5°	1399	1405	1421	1432	1432
10°	1383	1395	1417	1433	1433
12.5°	1363	1380	1409	1426	1425
15°	1340	1361	1393	1414	1415
17.5°	1314	1339	1371	1399	1403
20°	1284	1313	1347	1382	1389
22.5°	1252	1285	1320	1362	1375
25°	1217	1253	1291	1344	1369
27.5°	1180	1217	1262	1332	1366
30°	1139	1179	1232	1320	1354
32.5°	1096	1140	1206	1302	1356
35°	1050	1098	1184	1298	1372
37.5°	1001	1055	1157	1304	1404
40°	949	1010	1130	1320	1442
42.5°	893	963	1109	1333	1462
45°	832	914	1088	1324	1440
47.5°	766	861	1061	1272	1368
50°	692	802	1019	1181	1272
52.5°	605	730	949	1072	1169
55°	498	635	842	956	1081
57.5°	371	510	705	833	968
60°	253	363	543	677	745
62.5°	159	231	374	474	497
65°	102	139	224	297	313
67.5°	72	87	121	182	222
70°	52	60	68	118	154
72.5°	38	42	42	69	96
75°	28	30	27	36	48
77.5°	20	21	18	19	24
80°	14	14	12	12	14
82.5°	9	9	8	8	9
85°	5	5	4	5	5
87.5°	2	2	2	2	2
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)