

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: 193P106

Luminaire Tested: **PGX2048-232S48I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 193P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX2048-232S48I-PAF
Description: 20 X 48 Recessed Convertible Body Luminaire with a 4" deep
32 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32T8/35K - 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: 2961.9 lumens
Efficiency: 52.9%
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.87 / 1.6
Luminous Opening: Rectangular (W 1.41' x L: 3.75' x H: 0')
CIE Type: Direct

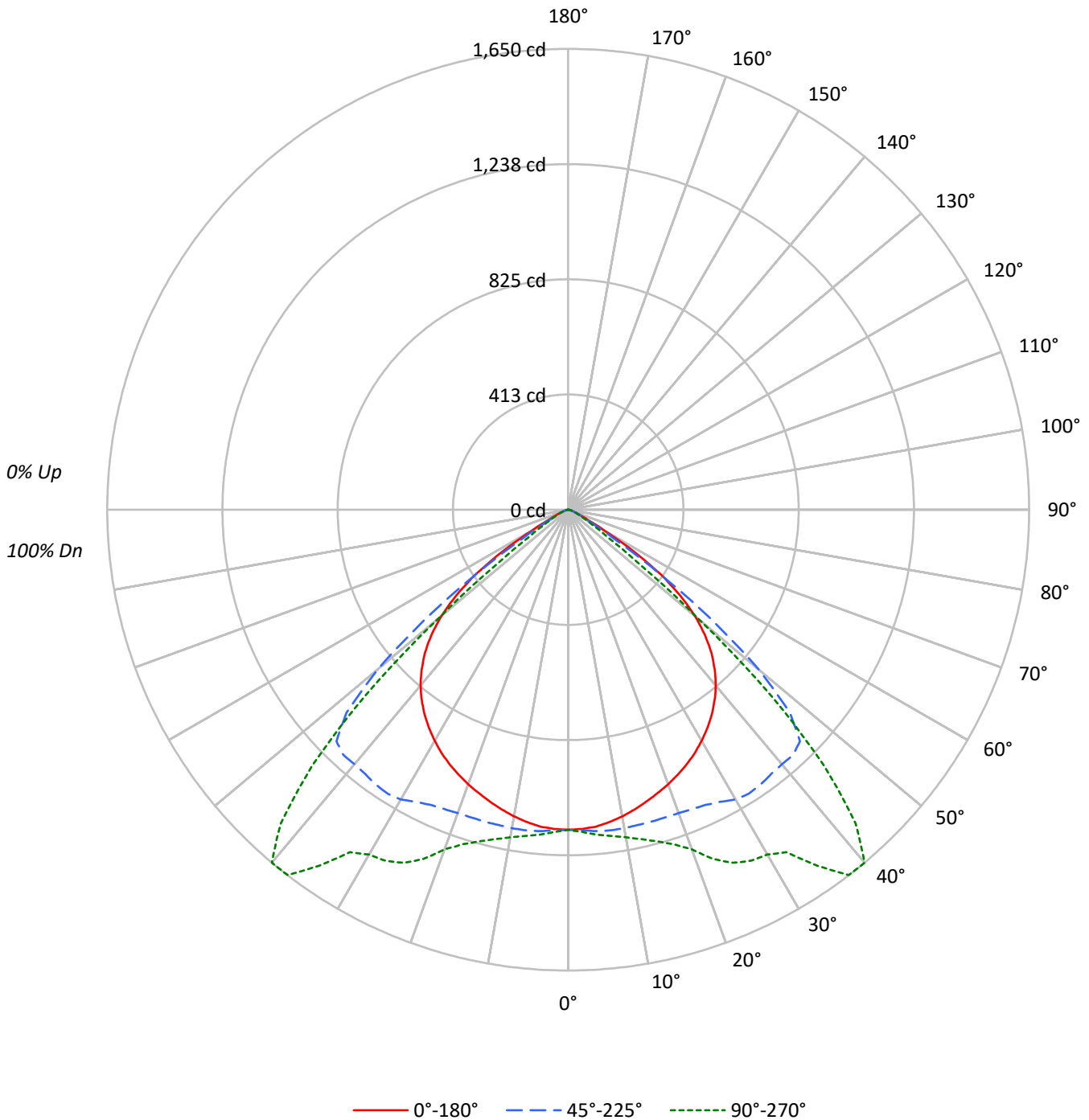
Input Watts (W): 56.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	63	63	63	63	62	62	62	62	59	59	59	56	56	56	54	54	54	53				53
1	59	57	55	54	58	56	54	53	54	53	51	52	51	50	50	49	48	47				47
2	55	51	49	46	54	50	48	46	49	47	45	47	45	44	45	44	43	42				42
3	51	46	43	40	50	45	42	40	44	41	39	43	40	38	41	39	38	37				37
4	47	42	38	35	46	41	37	34	40	37	34	39	36	34	37	35	33	32				32
5	43	38	33	30	42	37	33	30	36	33	30	35	32	30	34	31	29	28				28
6	40	34	30	27	39	34	30	27	33	29	27	32	29	26	31	28	26	25				25
7	37	31	27	24	37	31	27	24	30	26	24	29	26	23	28	25	23	22				22
8	35	28	24	21	34	28	24	21	27	24	21	27	23	21	26	23	21	20				20
9	33	26	22	19	32	26	22	19	25	22	19	24	21	19	24	21	19	18				18
10	30	24	20	17	30	24	20	17	23	20	17	23	19	17	22	19	17	16				16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2339	2339	2339
5°	2334	2366	2393
10°	2311	2400	2468
15°	2286	2443	2597
20°	2272	2511	2811
25°	2263	2626	3142
30°	2251	2823	3361
35°	2233	2993	3877
40°	2190	3171	4396
45°	2093	3386	3738
50°	1880	2823	1943
55°	1438	1413	630
60°	616	437	310
65°	241	237	188
70°	137	155	125
75°	87	110	87
80°	59	82	59
85°	47	47	47



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	110.2	3.7	2.0	0°	1146	1146	1146	1146	1146	
10°-20°	328.4	11.1	5.9	5°	1139	1143	1155	1164	1168	108
20°-30°	548.0	18.5	9.8	15°	1082	1109	1156	1208	1229	306
30°-40°	756.7	25.5	13.5	25°	1005	1055	1166	1326	1395	463
40°-50°	804.0	27.1	14.4	35°	896	989	1201	1386	1556	559
50°-60°	343.5	11.6	6.1	45°	725	886	1173	1260	1295	554
60°-70°	54.5	1.8	1.0	55°	404	529	397	232	177	346
70°-80°	14.2	0.5	0.3	65°	50	53	49	42	39	62
80°-90°	2.6	0.1	0.0	75°	11	13	14	12	11	13
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	2
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°	986.5	33.3	17.6	165°	0	0	0	0	0	0
0°-40°	1743.2	58.9	31.1	175°	0	0	0	0	0	0
0°-60°	2890.6	97.6	51.6	180°	0	0	0	0	0	0
0°-90°	2961.9	100.0	52.9							
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°	2961.9	100.0	52.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146	1146	1146	1146	1146
2.5°	1144	1144	1149	1153	1155
5°	1139	1143	1155	1164	1168
7.5°	1128	1139	1158	1173	1178
10°	1115	1131	1158	1181	1191
12.5°	1099	1121	1156	1194	1208
15°	1082	1109	1156	1208	1229
17.5°	1064	1096	1155	1225	1256
20°	1046	1082	1156	1247	1294
22.5°	1026	1069	1160	1284	1353
25°	1005	1055	1166	1326	1395
27.5°	982	1041	1179	1348	1417
30°	955	1025	1198	1355	1426
32.5°	927	1008	1205	1356	1454
35°	896	989	1201	1386	1556
37.5°	861	969	1193	1464	1649
40°	822	946	1190	1494	1650
42.5°	776	918	1191	1434	1523
45°	725	886	1173	1260	1295
47.5°	664	845	1076	1013	987
50°	592	784	889	721	612
52.5°	506	687	647	429	330
55°	404	529	397	232	177
57.5°	278	331	203	131	111
60°	151	167	107	86	76
62.5°	80	85	69	59	54
65°	50	53	49	42	39
67.5°	34	36	35	31	29
70°	23	25	26	23	21
72.5°	16	18	19	17	16
75°	11	13	14	12	11
77.5°	8	9	10	9	8
80°	5	6	7	6	5
82.5°	4	4	4	4	3
85°	2	2	2	2	2
87.5°	1	1	1	0	0
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)