

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: 115P153

Luminaire Tested: **P3GX-232S112I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P3GX-232S112I-PAF
Description: 1 X 4 Recessed Convertible Body Luminaire with a
12 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.16

Summary

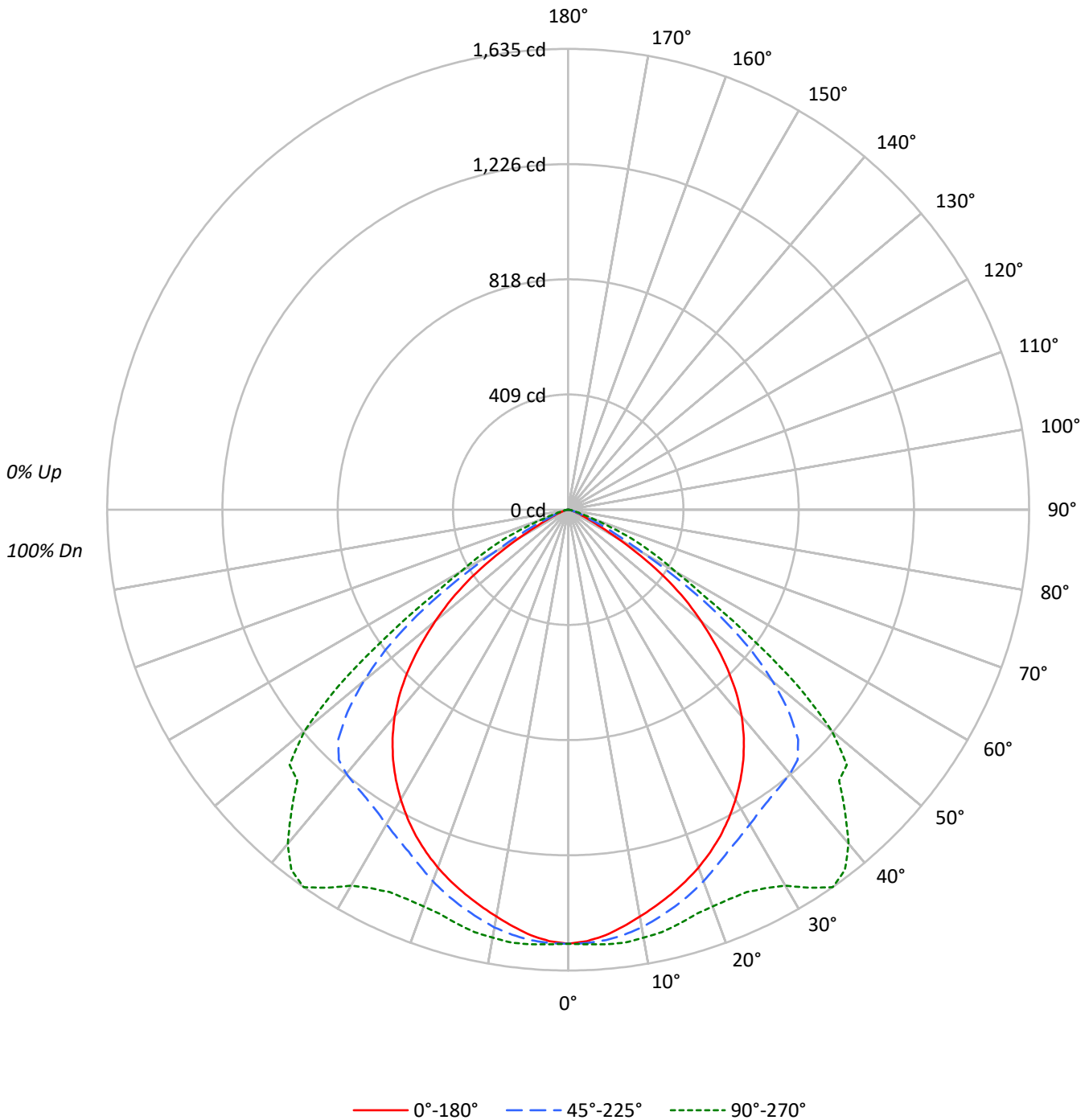
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3581.6 lumens
Efficiency: 64.0%
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.58 / 1.45
Luminous Opening: Rectangular (W 0.72' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57.3
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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	71	69	67	65	70	67	65	64	65	63	62		62	61	60		60	59	58	57
2	66	62	58	55	64	60	57	54	58	55	53		56	54	52		54	52	51	50
3	61	55	51	47	59	54	50	47	52	49	46		51	48	45		49	47	44	43
4	56	49	45	41	55	49	44	41	47	43	40		46	42	39		44	41	39	38
5	52	45	39	36	51	44	39	35	43	38	35		41	38	35		40	37	34	33
6	48	40	35	31	47	40	35	31	39	34	31		38	34	31		37	33	30	29
7	45	37	31	28	44	36	31	28	35	31	28		34	30	27		33	30	27	26
8	42	33	28	25	41	33	28	25	32	28	25		31	27	25		31	27	24	23
9	39	31	26	22	38	30	26	22	30	25	22		29	25	22		28	25	22	21
10	36	28	24	20	36	28	23	20	27	23	20		27	23	20		26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6105	6105	6105
5°	6033	6101	6161
10°	5902	6059	6208
15°	5796	5984	6243
20°	5700	5919	6320
25°	5586	5857	6549
30°	5434	5901	7050
35°	5242	6045	7913
40°	4958	6330	8006
45°	4485	6465	7620
50°	3793	5835	7531
55°	2896	4534	5454
60°	1570	2426	3489
65°	713	1163	2486
70°	394	510	1055
75°	230	276	475
80°	137	160	297
85°	91	91	182



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	145.4	4.1	2.6	0°	1540	1540	1540	1540	1540	
10°-20°	412.9	11.5	7.4	5°	1516	1518	1533	1545	1548	143
20°-30°	630.6	17.6	11.3	15°	1412	1428	1458	1501	1521	398
30°-40°	809.5	22.6	14.5	25°	1277	1297	1339	1427	1497	587
40°-50°	840.5	23.5	15.0	35°	1083	1121	1249	1470	1635	675
50°-60°	558.3	15.6	10.0	45°	800	898	1153	1245	1359	612
60°-70°	156.2	4.4	2.8	55°	419	543	656	733	789	367
70°-80°	24.9	0.7	0.4	65°	76	92	124	191	265	89
80°-90°	3.4	0.1	0.1	75°	15	16	18	24	31	18
90°-100°	0.0	0.0	0.0	85°	2	2	2	3	4	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°	1188.8	33.2	21.2	165°	0	0	0	0	0	0
0°-40°	1998.4	55.8	35.7	175°	0	0	0	0	0	0
0°-60°	3397.2	94.9	60.7	180°	0	0	0	0	0	0
0°-90°	3581.6	100.0	64.0							
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°	3581.6	100.0	64.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540	1540	1540	1540	1540
2.5°	1532	1533	1539	1544	1543
5°	1516	1518	1533	1545	1548
7.5°	1492	1499	1521	1542	1549
10°	1466	1478	1505	1531	1542
12.5°	1439	1454	1482	1518	1535
15°	1412	1428	1458	1501	1521
17.5°	1383	1399	1432	1477	1505
20°	1351	1367	1403	1455	1498
22.5°	1316	1333	1370	1443	1495
25°	1277	1297	1339	1427	1497
27.5°	1234	1258	1313	1422	1514
30°	1187	1215	1289	1427	1540
32.5°	1137	1169	1266	1441	1590
35°	1083	1121	1249	1470	1635
37.5°	1023	1069	1236	1478	1612
40°	958	1015	1223	1426	1547
42.5°	883	959	1204	1345	1453
45°	800	898	1153	1245	1359
47.5°	709	829	1062	1156	1340
50°	615	747	946	1089	1221
52.5°	523	654	816	933	1026
55°	419	543	656	733	789
57.5°	305	410	471	529	576
60°	198	271	306	383	440
62.5°	120	159	198	279	348
65°	76	92	124	191	265
67.5°	50	58	73	115	166
70°	34	37	44	63	91
72.5°	23	25	28	37	49
75°	15	16	18	24	31
77.5°	10	10	12	15	20
80°	6	6	7	10	13
82.5°	3	4	4	6	8
85°	2	2	2	3	4
87.5°	1	1	1	1	1
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)