

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: 218P114

Luminaire Tested: **EP3GAX-OU-232S18MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P114
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX-OU-232S18MI
Description: 3" 1 X 4 Over and Under Housing with an 8 cell
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

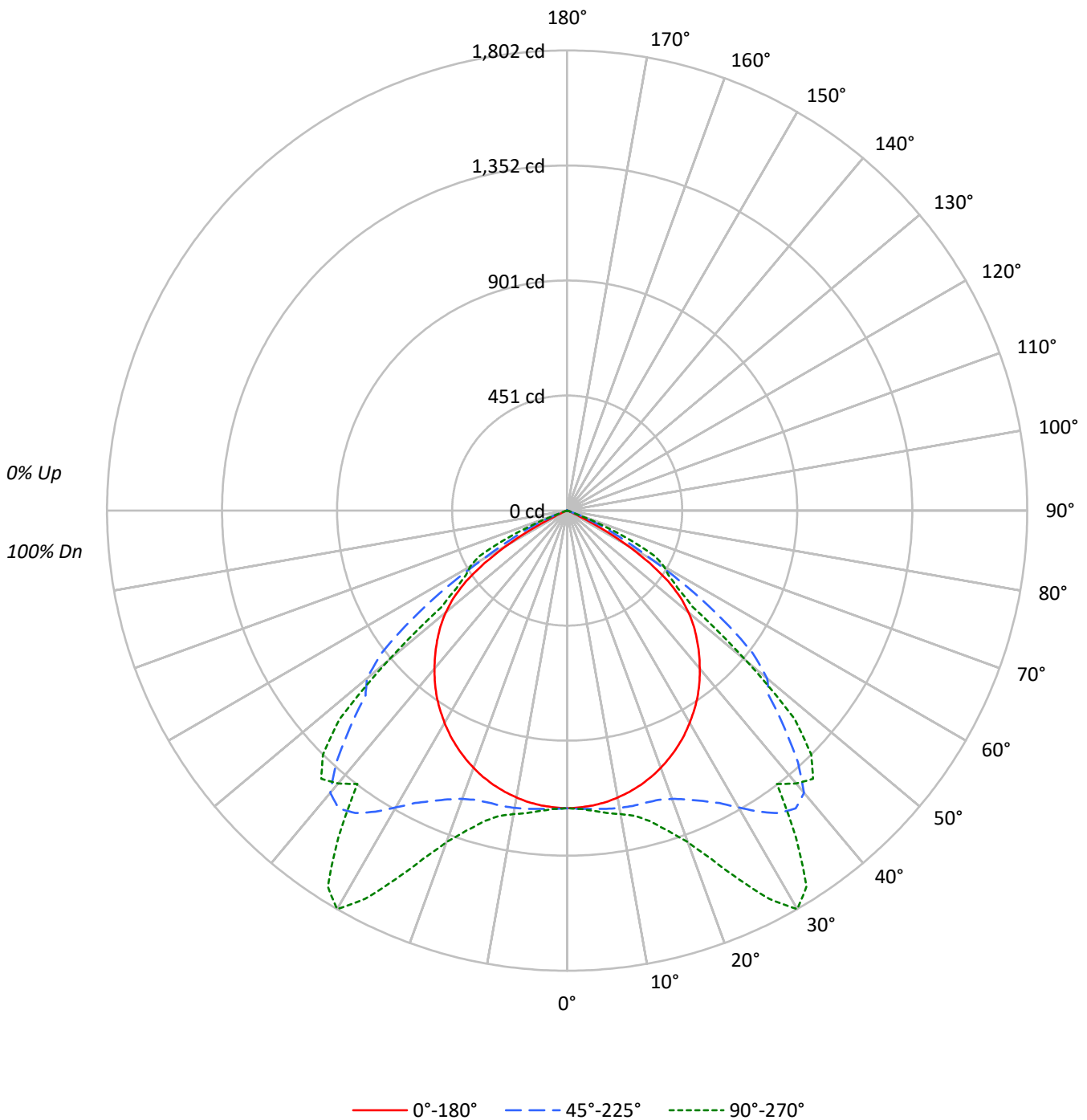
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3488.3 lumens
Efficiency: 62.3%
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.8 / 1.64
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 55.9
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: 218P114
CATALOG NUMBER: EP3GAX-OU-232S18MI

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	74	74	74	74	72	72	72	72	69	69	69		66	66	66		64	64	64	62
1	69	67	65	63	68	66	64	62	63	61	60		61	59	58		58	57	56	55
2	64	60	56	53	62	59	55	53	56	54	51		54	52	50		53	51	49	48
3	59	53	49	45	57	52	48	45	51	47	44		49	46	43		47	45	43	42
4	54	48	43	39	53	47	42	39	45	41	38		44	40	38		43	40	37	36
5	50	43	38	34	49	42	37	34	41	37	33		40	36	33		38	35	33	31
6	46	38	33	30	45	38	33	29	37	32	29		36	32	29		35	31	29	28
7	43	35	30	26	42	34	29	26	33	29	26		33	29	26		32	28	25	24
8	40	32	27	23	39	31	26	23	30	26	23		30	26	23		29	25	23	22
9	37	29	24	21	36	29	24	21	28	24	21		27	23	21		27	23	20	19
10	35	27	22	19	34	26	22	19	26	21	19		25	21	19		25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4590	4590	4590
5°	4580	4635	4663
10°	4561	4725	4824
15°	4532	4825	5131
20°	4491	5031	5785
25°	4434	5451	6923
30°	4363	6100	8191
35°	4277	6949	7506
40°	4152	7415	7168
45°	4008	6697	7526
50°	3803	6265	5628
55°	3315	5099	3630
60°	2133	2992	3448
65°	484	1583	2524
70°	104	276	368
75°	61	61	61
80°	45	45	45
85°	45	45	45



TEST NUMBER: 218P114

CATALOG NUMBER: EP3GAX-OU-232S18MI

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	112.1	3.2	2.0	0°	1166	1166	1166	1166	1166	
10°-20°	338.2	9.7	6.0	5°	1159	1163	1173	1181	1180	110
20°-30°	597.1	17.1	10.7	15°	1112	1138	1184	1238	1259	314
30°-40°	822.0	23.6	14.7	25°	1021	1079	1255	1489	1594	470
40°-50°	855.9	24.5	15.3	35°	890	1022	1446	1630	1562	556
50°-60°	578.3	16.6	10.3	45°	720	988	1203	1306	1352	554
60°-70°	176.5	5.1	3.2	55°	483	777	743	533	529	417
70°-80°	6.9	0.2	0.1	65°	52	90	170	235	271	87
80°-90°	1.3	0.0	0.0	75°	4	4	4	4	4	5
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
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°	1047.4	30.0	18.7	165°	0	0	0	0	0	0
0°-40°	1869.4	53.6	33.4	175°	0	0	0	0	0	0
0°-60°	3303.6	94.7	59.0	180°	0	0	0	0	0	0
0°-90°	3488.3	100.0	62.3							
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°	3488.3	100.0	62.3							



TEST NUMBER: 218P114

CATALOG NUMBER: EP3GAX-OU-232S18MI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166	1166	1166	1166	1166
2.5°	1163	1164	1169	1172	1169
5°	1159	1163	1173	1181	1180
7.5°	1152	1160	1178	1193	1194
10°	1141	1155	1182	1204	1207
12.5°	1128	1148	1185	1215	1224
15°	1112	1138	1184	1238	1259
17.5°	1094	1126	1188	1277	1315
20°	1072	1113	1201	1331	1381
22.5°	1048	1097	1224	1396	1477
25°	1021	1079	1255	1489	1594
27.5°	992	1062	1291	1592	1714
30°	960	1047	1342	1684	1802
32.5°	926	1034	1398	1725	1745
35°	890	1022	1446	1630	1562
37.5°	851	1013	1470	1453	1349
40°	808	1006	1443	1277	1395
42.5°	765	997	1338	1319	1425
45°	720	988	1203	1306	1352
47.5°	673	974	1071	1193	1208
50°	621	941	1023	1004	919
52.5°	560	878	915	737	618
55°	483	777	743	533	529
57.5°	383	629	559	455	469
60°	271	431	380	393	438
62.5°	150	231	259	326	388
65°	52	90	170	235	271
67.5°	14	22	87	129	140
70°	9	10	24	41	32
72.5°	6	6	7	7	6
75°	4	4	4	4	4
77.5°	3	3	3	3	3
80°	2	2	2	2	2
82.5°	1	2	2	1	2
85°	1	1	1	1	1
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



TEST NUMBER: 218P114

CATALOG NUMBER: EP3GAX-OU-232S18MI

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)