

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: 218P117

Luminaire Tested: **EP3GAX-232S16I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P117
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX-232S16I
Description: 1 X 4 Recessed Convertible Body Luminaire with a
6 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. = 88.1

Summary

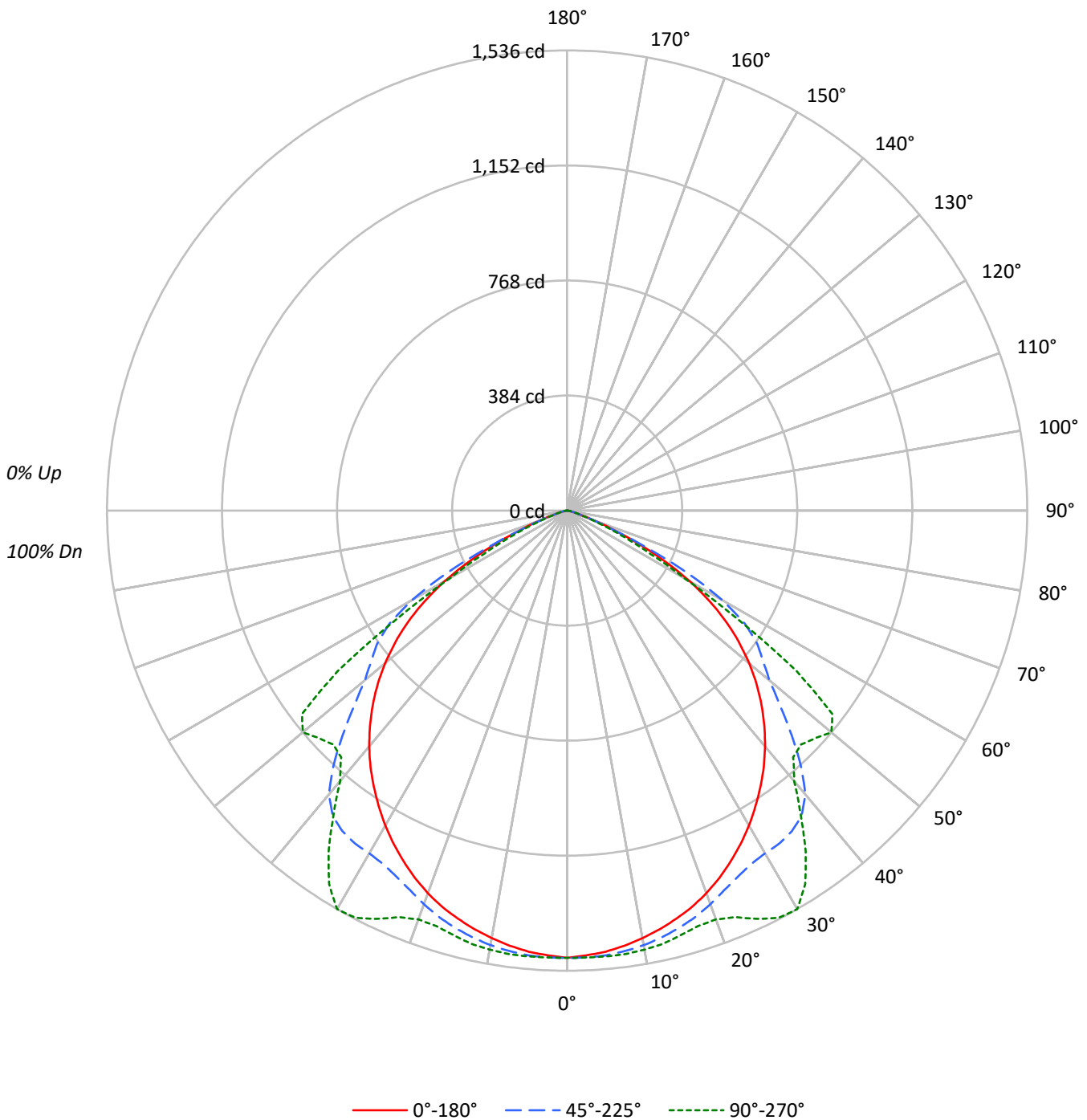
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3788.8 lumens
Efficiency: 67.7%
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.42 / 1.41
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.1
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: 218P117
CATALOG NUMBER: EP3GAX-232S16I

Luminous Intensity Polar Plot





TEST NUMBER: 218P117

CATALOG NUMBER: EP3GAX-232S16I

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	81	81	81	81	79	79	79	79	75	75	75		72	72	72		69	69	69	68
1	75	72	70	68	73	71	69	67	68	66	65		65	64	63		63	62	61	60
2	69	64	60	57	67	63	59	56	61	58	55		59	56	54		57	55	53	51
3	63	57	52	48	62	56	52	48	54	50	47		52	49	46		51	48	46	44
4	58	51	46	42	57	50	45	41	49	44	41		47	43	40		46	42	40	38
5	54	46	40	36	52	45	40	36	44	39	35		42	38	35		41	38	35	33
6	50	41	36	32	49	41	35	31	39	35	31		38	34	31		37	34	31	29
7	46	37	32	28	45	37	32	28	36	31	28		35	31	27		34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25		32	28	25		31	27	24	23
9	40	31	26	22	39	31	26	22	30	26	22		29	25	22		29	25	22	21
10	38	29	24	20	37	29	24	20	28	23	20		27	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5794	5794	5794
5°	5758	5805	5820
10°	5710	5805	5864
15°	5665	5794	5894
20°	5613	5774	5997
25°	5533	5772	6440
30°	5440	5920	6883
35°	5330	6192	6576
40°	5208	6267	5973
45°	5038	5812	6059
50°	4788	5319	6949
55°	4391	5237	6326
60°	3687	4649	3501
65°	2443	2700	1965
70°	1055	1010	840
75°	390	405	435
80°	201	246	291
85°	134	134	178



TEST NUMBER: 218P117

CATALOG NUMBER: EP3GAX-232S16I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	141.6	3.7	2.5	0°	1493	1493	1493	1493	1493	
10°-20°	407.1	10.7	7.3	5°	1478	1482	1490	1497	1494	140
20°-30°	636.4	16.8	11.4	15°	1410	1422	1442	1465	1467	398
30°-40°	793.6	20.9	14.2	25°	1292	1311	1348	1446	1504	595
40°-50°	796.1	21.0	14.2	35°	1125	1154	1307	1389	1388	704
50°-60°	694.8	18.3	12.4	45°	918	981	1059	1037	1104	706
60°-70°	277.0	7.3	4.9	55°	649	747	774	925	935	574
70°-80°	37.6	1.0	0.7	65°	266	308	294	224	214	267
80°-90°	4.7	0.1	0.1	75°	26	28	27	29	29	37
90°-100°	0.0	0.0	0.0	85°	3	3	3	4	4	4
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°	1185.1	31.3	21.2	165°	0	0	0	0	0	0
0°-40°	1978.7	52.2	35.3	175°	0	0	0	0	0	0
0°-60°	3469.5	91.6	62.0	180°	0	0	0	0	0	0
0°-90°	3788.8	100.0	67.7							
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°	3788.8	100.0	67.7							



TEST NUMBER: 218P117

CATALOG NUMBER: EP3GAX-232S16I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493	1493	1493	1493	1493
2.5°	1486	1488	1493	1497	1493
5°	1478	1482	1490	1497	1494
7.5°	1465	1471	1483	1494	1493
10°	1449	1458	1473	1488	1488
12.5°	1431	1442	1459	1479	1481
15°	1410	1422	1442	1465	1467
17.5°	1387	1399	1423	1445	1454
20°	1359	1372	1398	1432	1452
22.5°	1327	1343	1371	1429	1469
25°	1292	1311	1348	1446	1504
27.5°	1254	1275	1330	1468	1532
30°	1214	1238	1321	1479	1536
32.5°	1170	1198	1318	1460	1479
35°	1125	1154	1307	1389	1388
37.5°	1078	1110	1285	1292	1281
40°	1028	1067	1237	1186	1179
42.5°	974	1025	1155	1090	1117
45°	918	981	1059	1037	1104
47.5°	858	936	964	1021	1124
50°	793	885	881	1021	1151
52.5°	724	822	823	1008	1116
55°	649	747	774	925	935
57.5°	565	655	703	728	676
60°	475	546	599	508	451
62.5°	370	427	458	329	315
65°	266	308	294	224	214
67.5°	166	195	165	142	133
70°	93	103	89	81	74
72.5°	48	52	47	46	44
75°	26	28	27	29	29
77.5°	16	17	17	19	19
80°	9	10	11	12	13
82.5°	5	6	7	8	8
85°	3	3	3	4	4
87.5°	2	1	1	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



TEST NUMBER: 218P117

CATALOG NUMBER: EP3GAX-232S16I

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)