

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: 218P106

Luminaire Tested: **EP3GX-232S18I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 218P106  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-232S18I  
Description: 1 X 4 Recessed Convertible Body Luminaire with an 8 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**

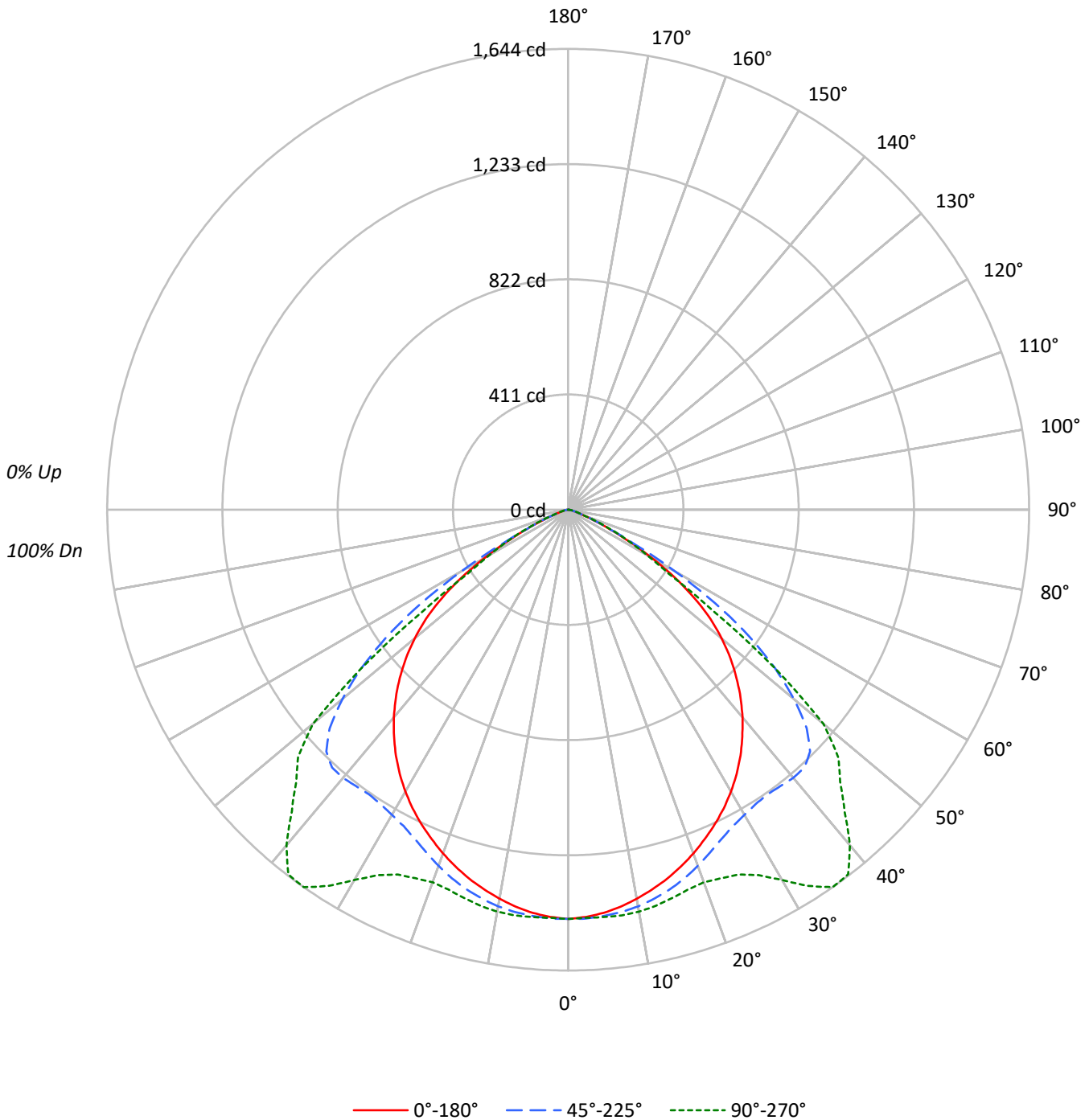
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3670.7 lumens  
Efficiency: 65.5%  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.64 / 1.53  
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')  
CIE Type: Direct

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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	73	70	68	66	71	69	67	65	66	64	63		64	62	61		61	60	59	58
2	67	63	59	56	66	62	58	55	59	56	54		57	55	53		55	53	52	50
3	62	56	51	48	60	55	51	47	53	49	46		51	48	46		50	47	45	44
4	57	50	45	41	56	49	44	41	48	43	40		46	43	40		45	42	39	38
5	53	45	40	36	51	44	39	35	43	38	35		42	38	35		40	37	34	33
6	49	41	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	27		34	30	27		34	30	27	26
8	42	34	28	25	41	33	28	25	32	28	24		31	27	24		31	27	24	23
9	39	31	26	22	38	30	25	22	30	25	22		29	25	22		28	25	22	21
10	37	28	23	20	36	28	23	20	27	23	20		27	23	20		26	22	20	19

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

	0°	45°	90°
0°	5666	5666	5666
5°	5626	5668	5684
10°	5553	5663	5738
15°	5476	5633	5762
20°	5390	5584	5840
25°	5301	5545	6149
30°	5203	5633	6834
35°	5074	5870	7789
40°	4899	6328	7919
45°	4660	6696	7530
50°	4317	6352	7173
55°	3721	5345	4310
60°	2678	3415	2515
65°	1488	1488	1580
70°	613	669	681
75°	330	375	405
80°	201	246	291
85°	134	134	178



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	138.2	3.8	2.5	0°	1460	1460	1460	1460	1460	
10°-20°	395.3	10.8	7.1	5°	1444	1446	1455	1462	1459	137
20°-30°	610.9	16.6	10.9	15°	1363	1375	1402	1428	1434	384
30°-40°	811.4	22.1	14.5	25°	1238	1257	1295	1383	1436	570
40°-50°	874.1	23.8	15.6	35°	1071	1104	1239	1504	1644	669
50°-60°	616.8	16.8	11.0	45°	849	928	1220	1293	1372	653
60°-70°	189.1	5.2	3.4	55°	550	699	790	704	637	484
70°-80°	30.3	0.8	0.5	65°	162	197	162	167	172	172
80°-90°	4.6	0.1	0.1	75°	22	24	25	27	27	27
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°	1144.4	31.2	20.4	165°	0	0	0	0	0	0
0°-40°	1955.8	53.3	34.9	175°	0	0	0	0	0	0
0°-60°	3446.7	93.9	61.5	180°	0	0	0	0	0	0
0°-90°	3670.7	100.0	65.5							
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°	3670.7	100.0	65.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1460	1460	1460	1460	1460
2.5°	1454	1455	1460	1463	1457
5°	1444	1446	1455	1462	1459
7.5°	1429	1433	1448	1460	1460
10°	1409	1417	1437	1455	1456
12.5°	1387	1397	1421	1443	1447
15°	1363	1375	1402	1428	1434
17.5°	1335	1349	1379	1408	1421
20°	1305	1320	1352	1390	1414
22.5°	1272	1290	1323	1381	1423
25°	1238	1257	1295	1383	1436
27.5°	1201	1222	1272	1391	1469
30°	1161	1185	1257	1417	1525
32.5°	1118	1146	1245	1458	1591
35°	1071	1104	1239	1504	1644
37.5°	1020	1060	1243	1525	1640
40°	967	1015	1249	1491	1563
42.5°	910	971	1247	1401	1459
45°	849	928	1220	1293	1372
47.5°	785	884	1154	1199	1306
50°	715	835	1052	1102	1188
52.5°	639	776	931	946	931
55°	550	699	790	704	637
57.5°	451	592	622	472	424
60°	345	458	440	321	324
62.5°	244	316	272	237	245
65°	162	197	162	167	172
67.5°	95	113	99	108	108
70°	54	62	59	64	60
72.5°	34	37	37	38	38
75°	22	24	25	27	27
77.5°	15	16	17	19	19
80°	9	10	11	13	13
82.5°	5	6	7	8	8
85°	3	3	3	4	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)