

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: 218P121

Luminaire Tested: **EP3GX-232ST112MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P121
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-232ST112MI
Description: 1 X 4 Recessed Convertible Body Luminaire with a 12
cell specular parabolic louver with tannenbaum cross vanes.
Light Source: Two - F032/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1%

Summary

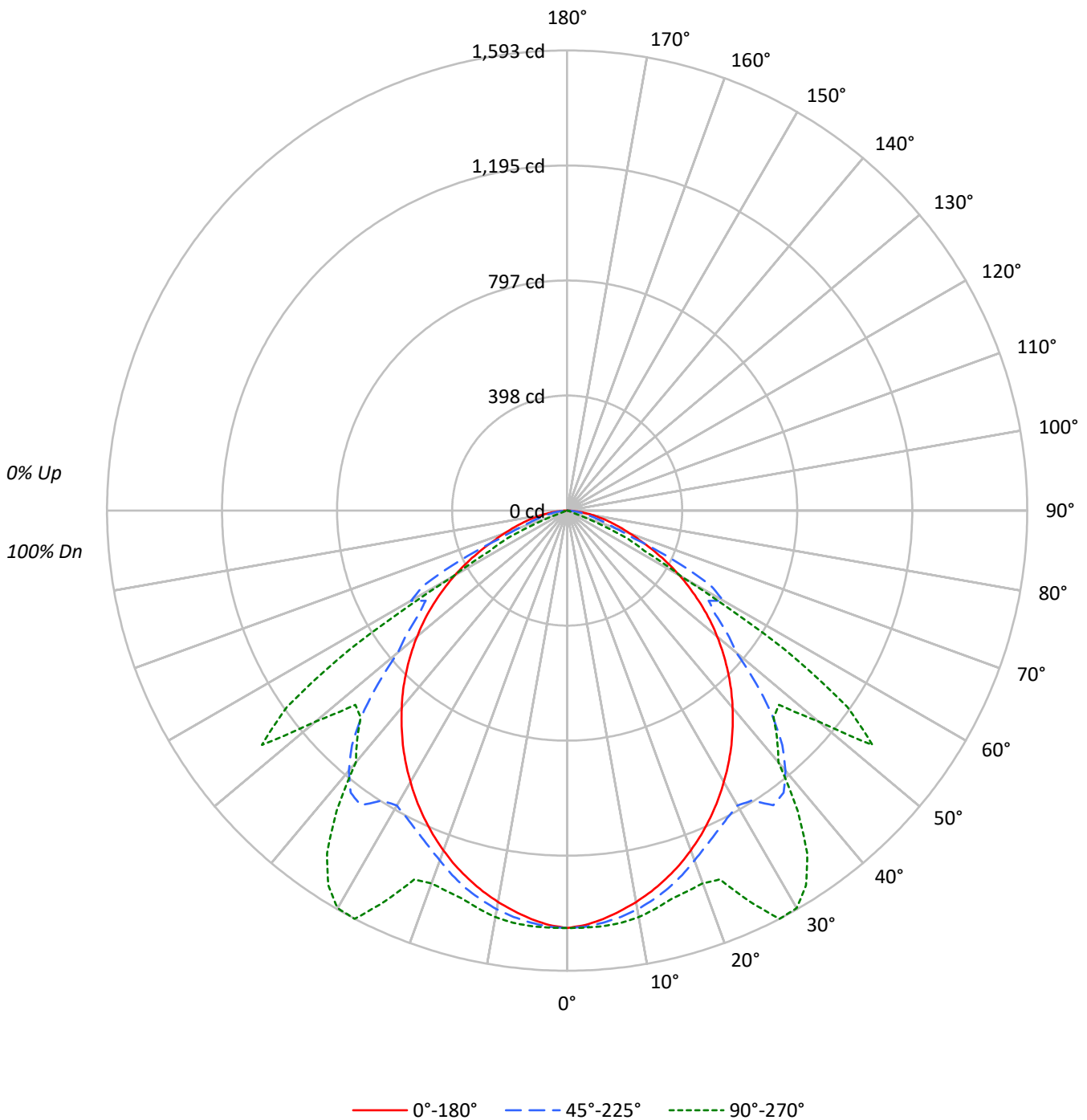
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3702.4 lumens
Efficiency: 66.1%
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.47 / 1.4
Luminous Opening: Rectangular (W 0.7' x L: 3.72' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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	79	79	79	79	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	73	70	68	65	71	69	66	64	66	64	62		63	62	60		61	60	59	57
2	67	62	58	54	65	61	57	54	58	55	53		56	54	51		54	52	50	49
3	61	55	50	46	60	54	49	45	52	48	45		50	47	44		48	46	43	42
4	56	49	43	39	55	48	43	39	46	42	38		45	41	38		43	40	37	36
5	52	44	38	34	50	43	38	34	42	37	33		40	36	33		39	36	33	31
6	48	39	34	30	47	39	33	30	38	33	29		37	32	29		36	32	29	28
7	44	36	30	26	43	35	30	26	34	29	26		33	29	26		32	29	26	24
8	41	33	27	23	40	32	27	23	31	27	23		31	26	23		30	26	23	22
9	39	30	25	21	38	30	24	21	29	24	21		28	24	21		27	24	21	20
10	36	28	23	19	35	27	22	19	27	22	19		26	22	19		25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5973	5973	5973
5°	5892	5942	5992
10°	5776	5885	5998
15°	5649	5794	5957
20°	5507	5670	6040
25°	5350	5596	6805
30°	5179	5627	7584
35°	5001	6283	7312
40°	4808	6346	6141
45°	4601	5881	5910
50°	4360	4913	7292
55°	4072	4511	8533
60°	3712	5159	3795
65°	3257	4010	2289
70°	2780	2139	218
75°	2476	1645	144
80°	2095	1309	143
85°	1613	996	95



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	135.8	3.7	2.4	0°	1445	1445	1445	1445	1445	
10°-20°	382.5	10.3	6.8	5°	1420	1425	1432	1443	1444	134
20°-30°	593.7	16.0	10.6	15°	1320	1333	1354	1379	1392	372
30°-40°	751.3	20.3	13.4	25°	1173	1190	1227	1335	1492	540
40°-50°	713.7	19.3	12.7	35°	991	1007	1245	1405	1449	619
50°-60°	674.2	18.2	12.0	45°	787	820	1006	950	1011	607
60°-70°	323.0	8.7	5.8	55°	565	665	626	1041	1184	505
70°-80°	103.3	2.8	1.8	65°	333	348	410	233	234	331
80°-90°	24.8	0.7	0.4	75°	155	145	103	52	9	165
90°-100°	0.0	0.0	0.0	85°	34	30	21	13	2	40
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1112.0	30.0	19.9	165°	0	0	0	0	0	0
0°-40°	1863.3	50.3	33.3	175°	0	0	0	0	0	0
0°-60°	3251.2	87.8	58.1	180°	0	0	0	0	0	0
0°-90°	3702.4	100.0	66.1							
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°	3702.4	100.0	66.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445	1445	1445	1445	1445
2.5°	1436	1438	1442	1447	1445
5°	1420	1425	1432	1443	1444
7.5°	1399	1406	1419	1436	1439
10°	1376	1384	1402	1422	1429
12.5°	1350	1361	1379	1403	1412
15°	1320	1333	1354	1379	1392
17.5°	1288	1302	1323	1355	1382
20°	1252	1269	1289	1338	1373
22.5°	1214	1230	1256	1328	1382
25°	1173	1190	1227	1335	1492
27.5°	1130	1147	1200	1455	1593
30°	1085	1102	1179	1501	1589
32.5°	1039	1055	1190	1470	1539
35°	991	1007	1245	1405	1449
37.5°	941	959	1231	1307	1311
40°	891	912	1176	1169	1138
42.5°	840	865	1102	1014	1076
45°	787	820	1006	950	1011
47.5°	733	776	889	881	995
50°	678	754	764	856	1134
52.5°	623	721	698	977	1332
55°	565	665	626	1041	1184
57.5°	507	592	581	875	890
60°	449	512	624	613	459
62.5°	391	429	558	333	300
65°	333	348	410	233	234
67.5°	277	284	248	172	117
70°	230	222	177	86	18
72.5°	192	181	135	60	12
75°	155	145	103	52	9
77.5°	120	110	77	45	8
80°	88	80	55	34	6
82.5°	60	53	36	23	4
85°	34	30	21	13	2
87.5°	15	12	7	4	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)