

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: 150P129

Luminaire Tested: **P2GAX-232S111I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 150P129
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GAX-232S111I
Description: 1 X 4 Recessed Convertible Body Luminaire with a 2"
deep 11 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.EE
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22%

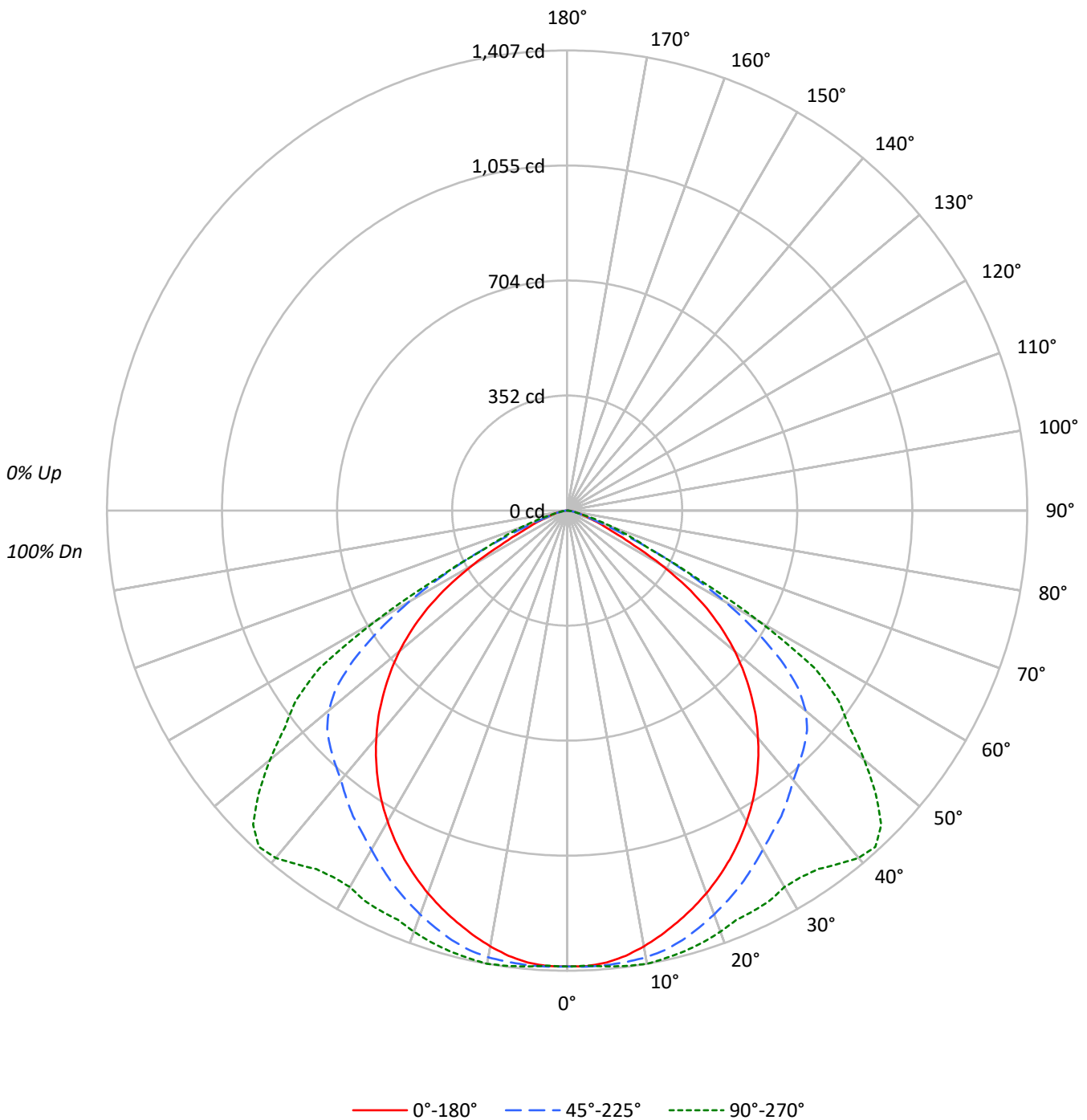
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3644.6 lumens
Efficiency: 65.1%
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.49 / 1.46
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 58
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	77	77	77	77	76	76	76	76	72	72	72	69	69	69	66	66	66	65
1	72	69	67	65	70	68	66	64	65	64	62	63	61	60	60	59	58	57
2	66	62	58	54	65	60	57	54	58	55	53	56	54	51	54	52	50	49
3	61	55	50	46	59	54	49	46	52	48	45	50	47	44	48	46	43	42
4	56	49	43	39	54	48	43	39	46	42	39	45	41	38	43	40	38	36
5	51	44	38	34	50	43	38	34	42	37	34	40	36	33	39	36	33	32
6	47	39	34	30	46	39	33	30	38	33	29	36	32	29	35	32	29	28
7	44	36	30	26	43	35	30	26	34	29	26	33	29	26	32	29	26	24
8	41	32	27	23	40	32	27	23	31	27	23	30	26	23	30	26	23	22
9	38	30	25	21	37	29	24	21	29	24	21	28	24	21	27	23	21	20
10	36	27	22	19	35	27	22	19	26	22	19	26	22	19	25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5393	5393	5393
5°	5386	5417	5433
10°	5315	5448	5527
15°	5219	5447	5583
20°	5125	5410	5640
25°	5024	5378	5762
30°	4905	5347	5937
35°	4765	5389	6319
40°	4585	5434	6999
45°	4349	5602	7430
50°	4026	5730	7138
55°	3514	5382	6832
60°	2584	4310	5261
65°	1446	2655	2572
70°	939	1120	1674
75°	673	643	777
80°	512	468	423
85°	355	311	311



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	132.8	3.6	2.4	0°	1394	1394	1394	1394	1394	
10°-20°	382.3	10.5	6.8	5°	1387	1387	1395	1402	1399	131
20°-30°	583.0	16.0	10.4	15°	1303	1321	1360	1390	1394	367
30°-40°	726.2	19.9	13.0	25°	1177	1212	1260	1317	1350	542
40°-50°	804.1	22.1	14.4	35°	1009	1057	1141	1255	1338	630
50°-60°	676.3	18.6	12.1	45°	795	866	1024	1243	1358	612
60°-70°	274.2	7.5	4.9	55°	521	627	798	886	1013	458
70°-80°	56.4	1.5	1.0	65°	158	205	290	282	281	175
80°-90°	9.3	0.3	0.2	75°	45	48	43	48	52	51
90°-100°	0.0	0.0	0.0	85°	8	8	7	7	7	10
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°	1098.1	30.1	19.6	165°	0	0	0	0	0	0
0°-40°	1824.3	50.1	32.6	175°	0	0	0	0	0	0
0°-60°	3304.7	90.7	59.0	180°	0	0	0	0	0	0
0°-90°	3644.6	100.0	65.1							
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°	3644.6	100.0	65.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394	1394	1394	1394	1394
2.5°	1394	1392	1396	1399	1393
5°	1387	1387	1395	1402	1399
7.5°	1373	1377	1392	1406	1404
10°	1353	1361	1387	1407	1407
12.5°	1329	1342	1377	1401	1401
15°	1303	1321	1360	1390	1394
17.5°	1275	1297	1338	1376	1384
20°	1245	1272	1314	1358	1370
22.5°	1212	1244	1288	1338	1354
25°	1177	1212	1260	1317	1350
27.5°	1139	1177	1229	1305	1344
30°	1098	1140	1197	1286	1329
32.5°	1055	1099	1167	1264	1329
35°	1009	1057	1141	1255	1338
37.5°	960	1012	1109	1253	1362
40°	908	966	1076	1260	1386
42.5°	854	918	1050	1260	1395
45°	795	866	1024	1243	1358
47.5°	734	813	995	1185	1279
50°	669	757	952	1094	1186
52.5°	599	698	890	993	1087
55°	521	627	798	886	1013
57.5°	433	544	684	786	898
60°	334	442	557	640	680
62.5°	231	321	422	448	442
65°	158	205	290	282	281
67.5°	114	136	173	181	208
70°	83	95	99	124	148
72.5°	61	68	63	80	95
75°	45	48	43	48	52
77.5°	33	34	30	28	29
80°	23	23	21	18	19
82.5°	15	15	13	12	12
85°	8	8	7	7	7
87.5°	3	3	3	3	3
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)