

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: 115P133

Luminaire Tested: **EP3GX-OU-232S18M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P133
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-OU-232S18M/I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with stacked lamp configuration and a 3" deep 8 cell specular low iridescent parabolic louver.
Light Source: Two-FO32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

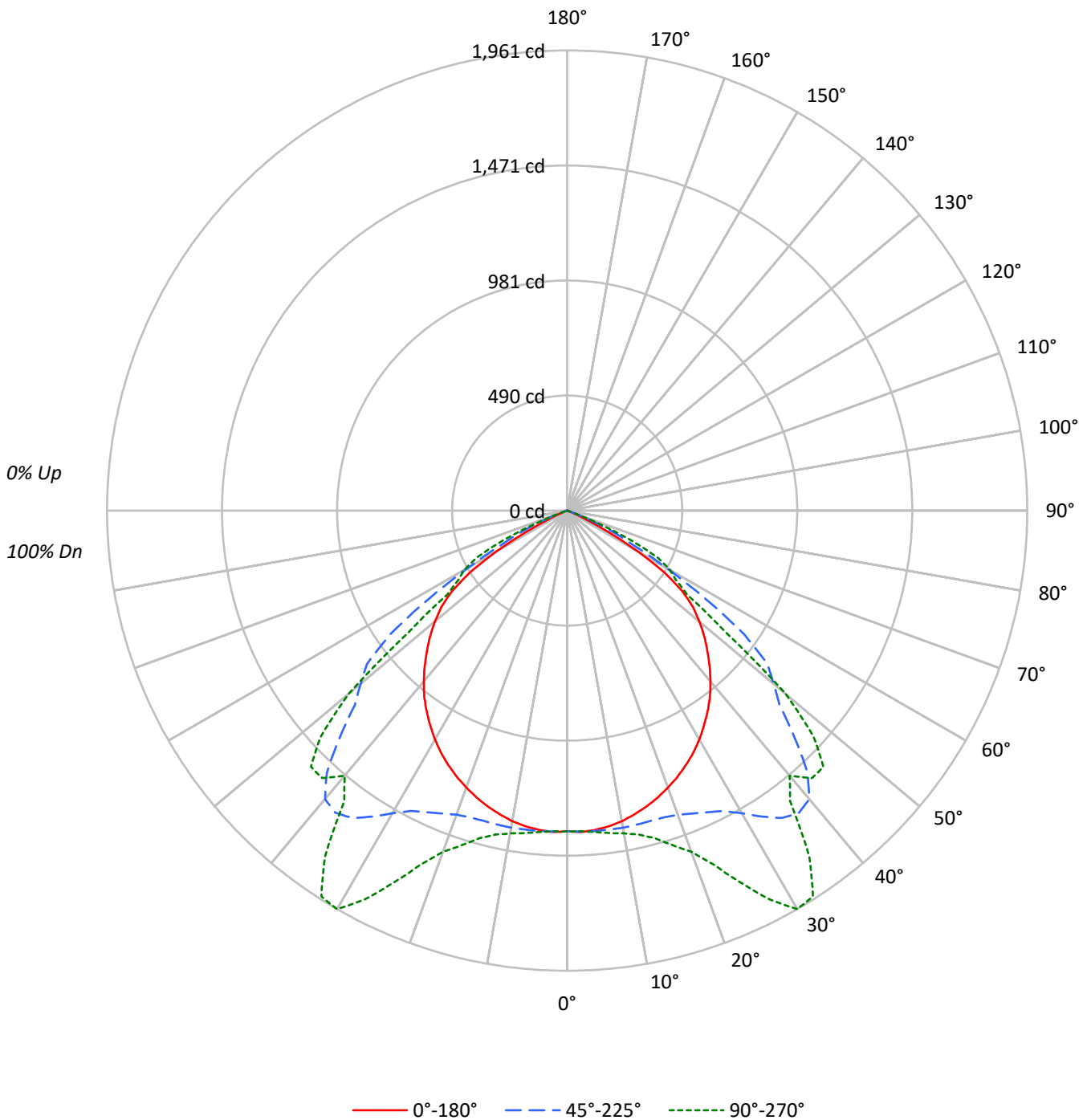
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4023.4 lumens
Efficiency: 69.4%
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.65 / 1.62
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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: 115P133
CATALOG NUMBER: EP3GX-OU-232S18M/I-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 115P133

CATALOG NUMBER: EP3GX-OU-232S18M/I-PAF

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	69																				
1	77	74	72	70	75	73	71	69	70	68	67	67	66	65	65	64	63	61																				
2	71	66	62	59	69	65	62	58	63	60	57	61	58	56	59	56	55	53																				
3	65	59	54	50	64	58	54	50	56	52	49	54	51	48	53	50	47	46																				
4	60	53	47	43	59	52	47	43	50	46	42	49	45	42	47	44	41	40																				
5	55	47	42	37	54	47	41	37	45	40	37	44	40	36	43	39	36	35																				
6	51	43	37	33	50	42	37	33	41	36	32	40	35	32	39	35	32	30																				
7	47	39	33	29	46	38	33	29	37	32	28	36	32	28	35	31	28	27																				
8	44	35	29	26	43	35	29	26	34	29	25	33	28	25	32	28	25	24																				
9	41	32	27	23	40	32	26	23	31	26	23	30	26	23	29	25	23	21																				
10	38	29	24	21	38	29	24	21	28	24	21	28	23	20	27	23	20	19																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5381	5381	5381
5°	5398	5417	5433
10°	5372	5484	5584
15°	5322	5579	5889
20°	5261	5777	6480
25°	5199	6159	7596
30°	5118	6768	8913
35°	5017	7684	8650
40°	4882	8247	7579
45°	4704	7643	8595
50°	4501	7030	7440
55°	4111	6321	4269
60°	2740	3795	3984
65°	736	1965	2785
70°	69	403	403
75°	46	61	61
80°	23	45	45
85°	0	0	45



TEST NUMBER: 115P133

CATALOG NUMBER: EP3GX-OU-232S18M/I-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	130.9	3.3	2.3	0°	1367	1367	1367	1367	1367	
10°-20°	390.7	9.7	6.7	5°	1366	1366	1371	1377	1375	130
20°-30°	672.9	16.7	11.6	15°	1306	1325	1369	1424	1445	368
30°-40°	926.6	23.0	16.0	25°	1197	1250	1418	1642	1749	551
40°-50°	972.7	24.2	16.8	35°	1044	1171	1599	1839	1800	652
50°-60°	705.8	17.5	12.2	45°	845	1114	1373	1448	1544	652
60°-70°	216.0	5.4	3.7	55°	599	923	921	690	622	514
70°-80°	7.2	0.2	0.1	65°	79	132	211	270	299	114
80°-90°	0.6	0.0	0.0	75°	3	3	4	4	4	3
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	1	0
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°	1194.5	29.7	20.6	165°	0	0	0	0	0	0
0°-40°	2121.1	52.7	36.6	175°	0	0	0	0	0	0
0°-60°	3799.6	94.4	65.5	180°	0	0	0	0	0	0
0°-90°	4023.4	100.0	69.4							
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°	4023.4	100.0	69.4							



TEST NUMBER: 115P133

CATALOG NUMBER: EP3GX-OU-232S18M/I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367	1367	1367	1367	1367
2.5°	1371	1368	1369	1372	1368
5°	1366	1366	1371	1377	1375
7.5°	1357	1361	1371	1385	1386
10°	1344	1351	1372	1393	1397
12.5°	1326	1339	1371	1404	1414
15°	1306	1325	1369	1424	1445
17.5°	1282	1308	1371	1459	1495
20°	1256	1291	1379	1502	1547
22.5°	1228	1272	1397	1555	1633
25°	1197	1250	1418	1642	1749
27.5°	1164	1228	1443	1747	1868
30°	1126	1208	1489	1840	1961
32.5°	1086	1188	1546	1892	1950
35°	1044	1171	1599	1839	1800
37.5°	1000	1156	1623	1672	1560
40°	950	1143	1605	1461	1475
42.5°	898	1128	1516	1402	1546
45°	845	1114	1373	1448	1544
47.5°	792	1099	1227	1394	1424
50°	735	1072	1148	1227	1215
52.5°	675	1018	1076	983	852
55°	599	923	921	690	622
57.5°	491	773	697	537	549
60°	348	555	482	461	506
62.5°	193	314	317	377	435
65°	79	132	211	270	299
67.5°	18	37	111	152	155
70°	6	8	35	49	35
72.5°	4	5	6	8	7
75°	3	3	4	4	4
77.5°	2	2	3	3	3
80°	1	2	2	2	2
82.5°	1	1	1	1	1
85°	0	0	0	0	1
87.5°	0	0	0	0	0
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: 115P133

CATALOG NUMBER: EP3GX-OU-232S18M/I-PAF

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)