

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: 220p205

Luminaire Tested: **2EP3GX-SS-232S36I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p205
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-SS-232S36I
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH SILVER LINED HOUSING
AND BALLAST COVER, 18 CELL SILVER PARABOLIC LOUVER.
Light Source: TWO LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

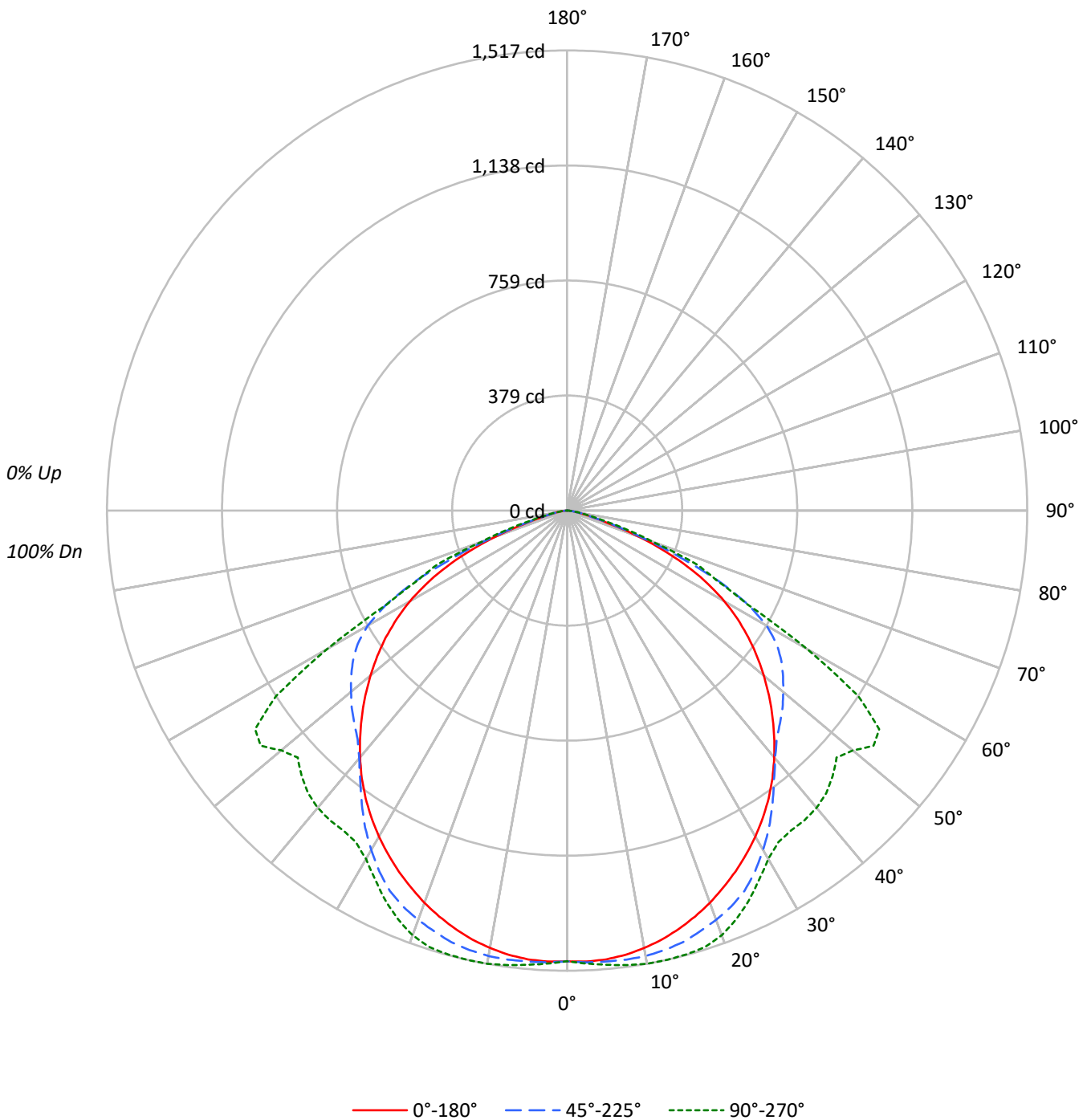
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 4206.7 lumens
Efficiency: 67.9%
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.34 / 1.38
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

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



TEST NUMBER: 220p205
CATALOG NUMBER: 2EP3GX-SS-232S36I

Luminous Intensity Polar Plot





TEST NUMBER: 220p205

CATALOG NUMBER: 2EP3GX-SS-232S36I

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	69	67	73	70	68	66	67	65	64	65	63	62	62	61	60	58
2	68	63	59	55	66	62	58	54	59	56	53	57	54	52	55	53	51	49
3	62	55	50	46	61	54	49	45	52	48	45	50	47	44	49	46	43	42
4	57	49	43	39	55	48	43	39	46	42	38	45	41	38	43	40	37	36
5	52	44	38	33	51	43	37	33	42	37	33	40	36	33	39	35	32	31
6	48	39	33	29	47	39	33	29	37	32	29	36	32	28	35	31	28	27
7	45	36	30	26	44	35	29	26	34	29	25	33	29	25	32	28	25	24
8	42	32	27	23	40	32	27	23	31	26	23	30	26	22	29	25	22	21
9	39	30	24	20	38	29	24	20	29	24	20	28	23	20	27	23	20	19
10	36	27	22	19	35	27	22	18	26	22	18	26	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2467	2467	2467
5°	2474	2486	2504
10°	2468	2513	2557
15°	2452	2531	2604
20°	2431	2537	2632
25°	2405	2533	2597
30°	2379	2476	2542
35°	2347	2391	2608
40°	2301	2310	2772
45°	2247	2329	2906
50°	2185	2402	3176
55°	2113	2495	3635
60°	1989	2520	3038
65°	1728	2180	2129
70°	1213	1320	1451
75°	564	577	738
80°	344	354	401
85°	229	248	229



TEST NUMBER: 220p205

CATALOG NUMBER: 2EP3GX-SS-232S36I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	142.4	3.4	2.3	0°	1486	1486	1486	1486	1486	
10°-20°	415.3	9.9	6.7	5°	1485	1487	1492	1496	1503	141
20°-30°	631.2	15.0	10.2	15°	1427	1441	1473	1498	1515	403
30°-40°	755.3	18.0	12.2	25°	1313	1341	1383	1401	1418	605
40°-50°	813.3	19.3	13.1	35°	1158	1191	1180	1218	1287	724
50°-60°	801.6	19.1	12.9	45°	957	975	992	1149	1238	738
60°-70°	503.1	12.0	8.1	55°	730	715	862	1088	1256	650
70°-80°	128.3	3.0	2.1	65°	440	467	555	506	542	428
80°-90°	16.3	0.4	0.3	75°	88	94	90	107	115	116
90°-100°	0.0	0.0	0.0	85°	12	13	13	12	12	16
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1188.8	28.3	19.2							
0°-40°	1944.1	46.2	31.4							
0°-60°	3559.0	84.6	57.4							
0°-90°	4206.7	100.0	67.9							
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°	4206.7	100.0	67.9							



TEST NUMBER: 220p205

CATALOG NUMBER: 2EP3GX-SS-232S36I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486	1486	1486	1486	1486
2.5°	1488	1489	1491	1491	1495
5°	1485	1487	1492	1496	1503
7.5°	1477	1480	1493	1503	1511
10°	1464	1470	1491	1507	1517
12.5°	1448	1457	1484	1505	1517
15°	1427	1441	1473	1498	1515
17.5°	1403	1421	1455	1490	1509
20°	1376	1398	1436	1473	1490
22.5°	1345	1371	1413	1441	1458
25°	1313	1341	1383	1401	1418
27.5°	1278	1308	1341	1354	1371
30°	1241	1272	1292	1301	1326
32.5°	1201	1233	1239	1252	1296
35°	1158	1191	1180	1218	1287
37.5°	1112	1145	1120	1203	1286
40°	1062	1094	1066	1191	1279
42.5°	1010	1037	1022	1174	1264
45°	957	975	992	1149	1238
47.5°	902	911	963	1115	1205
50°	846	846	930	1088	1230
52.5°	789	779	897	1098	1273
55°	730	715	862	1088	1256
57.5°	666	654	819	1037	1137
60°	599	598	759	890	915
62.5°	524	539	674	679	670
65°	440	467	555	506	542
67.5°	347	377	405	407	462
70°	250	276	272	283	299
72.5°	154	171	167	175	202
75°	88	94	90	107	115
77.5°	55	57	57	65	70
80°	36	37	37	40	42
82.5°	23	23	23	24	25
85°	12	13	13	12	12
87.5°	5	5	5	5	4
90°	0	0	0	0	0

(END OF REPORT)