

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: 187P101

Luminaire Tested: **2EP3GX-SS-2U6S44MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 187P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-SS-2U6S44MI
Description: 2 X 2 Recessed Air Supply Troffer with a silver steel body and a 3" deep 16 cell specular low iridescent parabolic louver.
Light Source: Two - FB31T8/TL735/6 - 2600 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.4

Summary

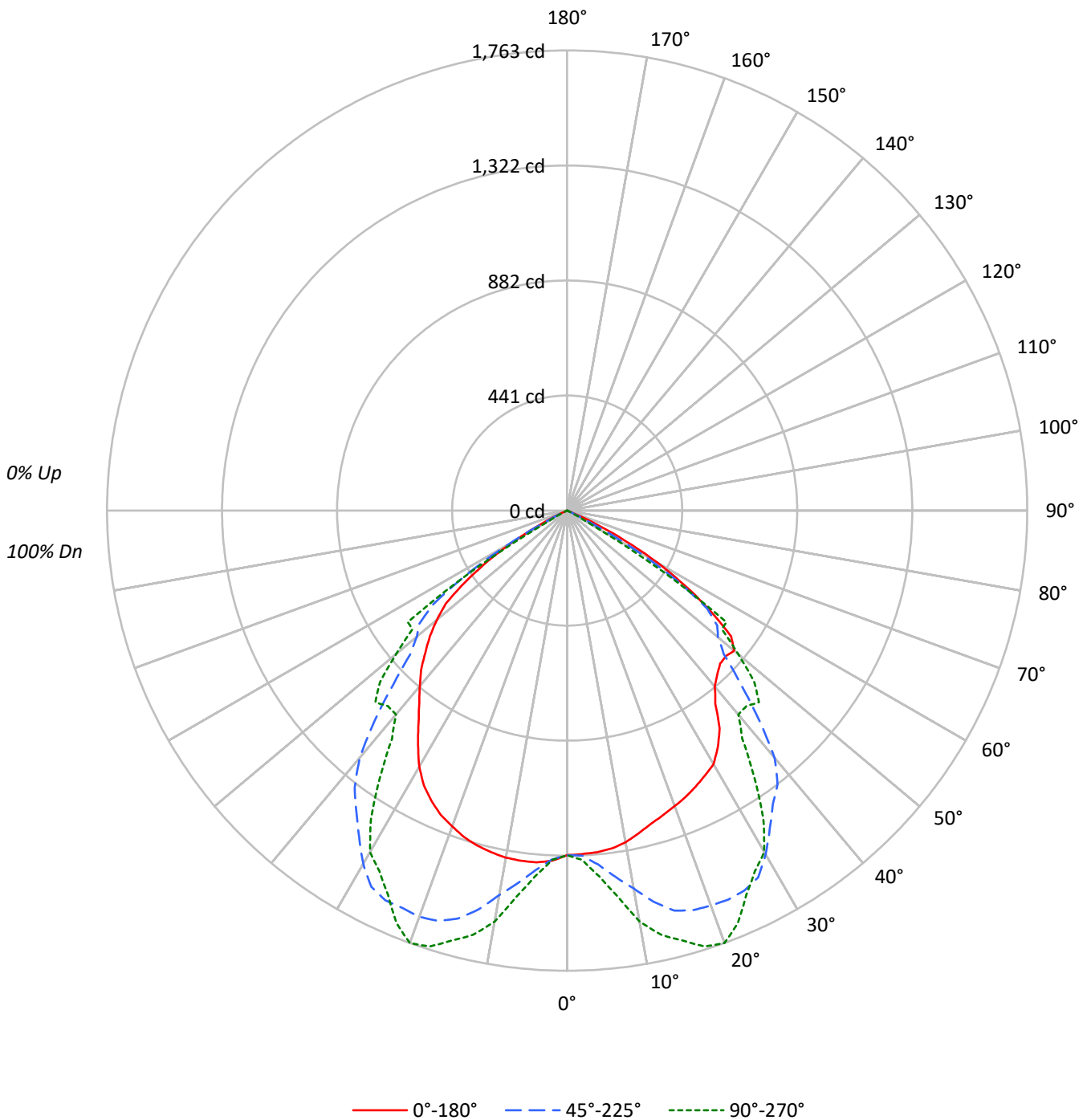
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3428.4 lumens
Efficiency: 65.9%
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.43 / 1.42
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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: 187P101
CATALOG NUMBER: 2EP3GX-SS-2U6S44MI

Luminous Intensity Polar Plot





TEST NUMBER: 187P101

CATALOG NUMBER: 2EP3GX-SS-2U6S44MI

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	50	30	10	50	30	10	0		
RCR																										
0	78	78	78	78	77	77	77	77	73	73	73	70	70	70	67	67	67	66					66			
1	74	71	69	67	72	70	68	66	67	66	64	65	63	62	62	61	61	59					59			
2	68	64	61	58	67	63	60	57	61	58	56	59	57	55	57	55	53	52					52			
3	63	58	53	50	62	57	53	50	55	52	49	53	50	48	52	49	47	46					46			
4	59	52	47	44	57	51	47	43	50	46	43	48	45	42	47	44	42	40					40			
5	54	47	42	38	53	46	42	38	45	41	38	44	40	37	43	40	37	36					36			
6	51	43	38	34	49	42	37	34	41	37	34	40	36	33	39	36	33	32					32			
7	47	39	34	30	46	39	34	30	38	33	30	37	33	30	36	32	30	28					28			
8	44	36	31	27	43	35	30	27	34	30	27	34	30	27	33	29	27	26					26			
9	41	33	28	25	40	33	28	25	32	27	24	31	27	24	30	27	24	23					23			
10	38	30	26	22	38	30	25	22	29	25	22	29	25	22	28	25	22	21					21			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4695	4695	4695
5°	4692	5020	4831
10°	4659	5772	4876
15°	4574	6279	4894
20°	4561	6673	4872
25°	4576	6374	4820
30°	4608	6202	4654
35°	4425	5437	4308
40°	4086	4736	4077
45°	4170	5227	3863
50°	4621	4731	3602
55°	4149	4620	2946
60°	2831	704	1693
65°	1002	76	370
70°	52	42	42
75°	27	27	14
80°	20	20	0
85°	0	0	0



TEST NUMBER: 187P101

CATALOG NUMBER: 2EP3GX-SS-2U6S44MI

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	134.0	3.9	2.6	0°	1320	1320	1320	1320	1320	
10°-20°	437.5	12.8	8.4	5°	1314	1361	1406	1382	1353	125
20°-30°	703.5	20.5	13.5	15°	1242	1587	1705	1618	1329	352
30°-40°	804.9	23.5	15.5	25°	1166	1606	1624	1648	1228	538
40°-50°	754.3	22.0	14.5	35°	1019	1373	1252	1408	992	629
50°-60°	528.6	15.4	10.2	45°	829	940	1039	940	768	651
60°-70°	63.7	1.9	1.2	55°	669	654	745	625	475	582
70°-80°	2.0	0.1	0.0	65°	119	21	9	18	44	145
80°-90°	0.0	0.0	0.0	75°	2	2	2	1	1	2
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	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°	1274.9	37.2	24.5	165°	0	0	0	0	0	0
0°-40°	2079.8	60.7	40.0	175°	0	0	0	0	0	0
0°-60°	3362.7	98.1	64.7	180°	0	0	0	0	0	0
0°-90°	3428.4	100.0	65.9							
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°	3428.4	100.0	65.9							



TEST NUMBER: 187P101

CATALOG NUMBER: 2EP3GX-SS-2U6S44MI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1320	1320	1320	1320	1320	1320	1320	1320	1320
2.5°	1317	1314	1323	1333	1340	1340	1338	1336	1343
5°	1314	1323	1361	1392	1406	1402	1382	1353	1353
7.5°	1306	1337	1415	1470	1492	1481	1439	1374	1353
10°	1290	1349	1470	1569	1598	1580	1495	1396	1350
12.5°	1266	1357	1536	1642	1665	1656	1565	1414	1341
15°	1242	1365	1587	1685	1705	1704	1618	1432	1329
17.5°	1223	1374	1605	1712	1751	1721	1648	1444	1312
20°	1205	1389	1610	1729	1763	1741	1656	1455	1287
22.5°	1187	1408	1613	1704	1710	1727	1648	1467	1263
25°	1166	1416	1606	1633	1624	1656	1648	1465	1228
27.5°	1144	1410	1585	1554	1558	1583	1625	1453	1188
30°	1122	1393	1521	1498	1510	1523	1563	1429	1133
32.5°	1074	1359	1445	1438	1399	1464	1483	1382	1063
35°	1019	1312	1373	1315	1252	1346	1408	1326	992
37.5°	933	1266	1324	1168	1102	1203	1337	1266	930
40°	880	1214	1237	1041	1020	1076	1236	1212	878
42.5°	851	1164	1089	971	1016	1010	1092	1150	828
45°	829	1093	940	970	1039	995	940	1073	768
47.5°	825	1005	814	971	973	991	815	972	713
50°	835	915	754	883	855	915	751	857	651
52.5°	792	817	725	751	747	771	715	727	586
55°	669	675	654	624	745	640	625	578	475
57.5°	536	495	497	468	435	470	458	407	360
60°	398	318	303	195	99	193	260	241	238
62.5°	253	170	108	38	20	37	92	118	114
65°	119	74	21	10	9	10	18	43	44
67.5°	23	24	7	6	6	6	6	14	7
70°	5	5	4	4	4	4	4	4	4
72.5°	3	3	3	3	3	2	2	2	2
75°	2	2	2	2	2	2	1	1	1
77.5°	1	1	1	1	1	1	1	1	1
80°	1	0	0	0	1	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



TEST NUMBER: 187P101

CATALOG NUMBER: 2EP3GX-SS-2U6S44MI

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)