

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: 197P101

Luminaire Tested: **2P2GX-2U6T8S44I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 197P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8S44I-PAF
Description: 2 X 2 Recessed Troffer with a 2" deep 16 cell
semi-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

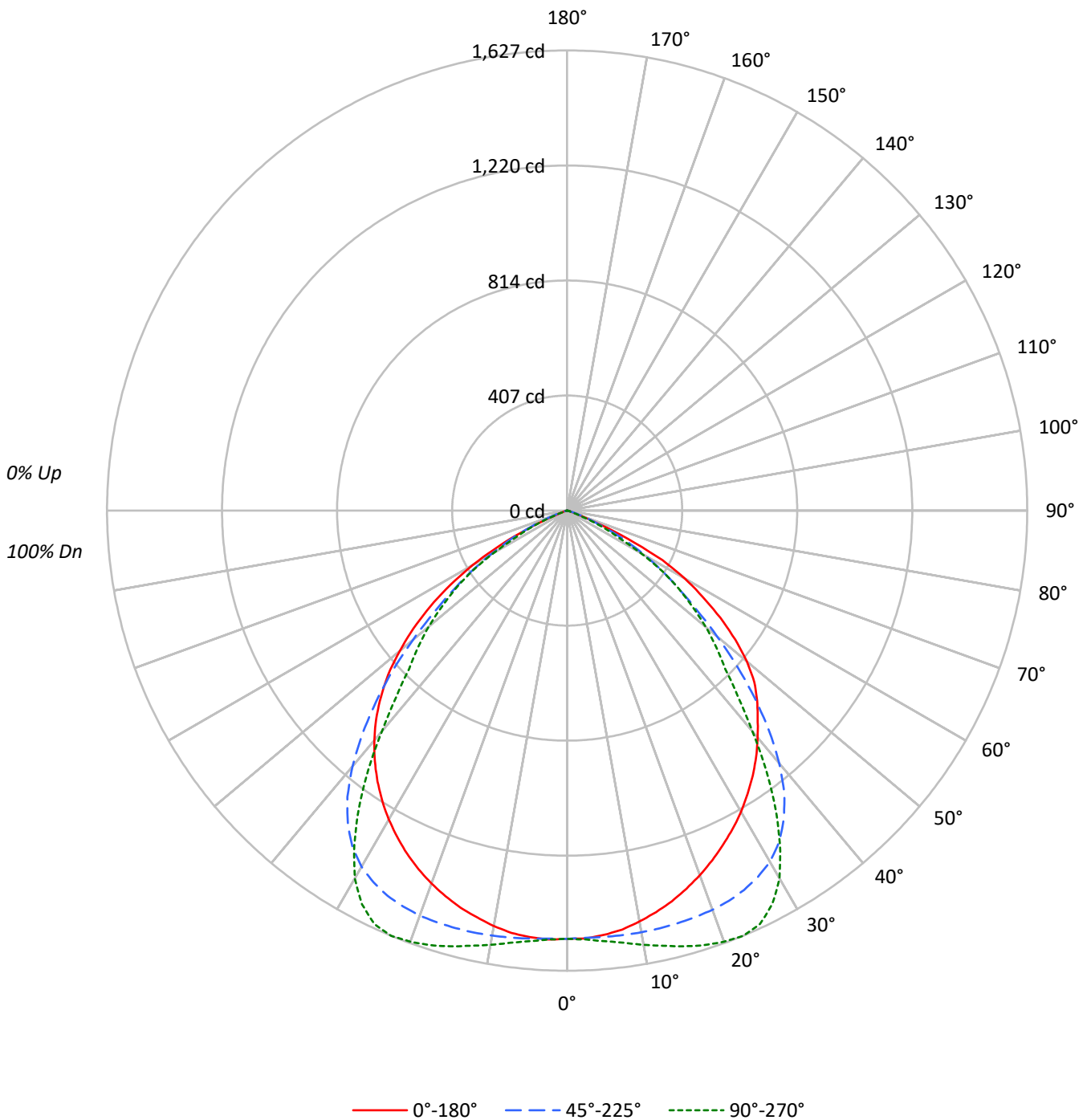
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3412.4 lumens
Efficiency: 65.6%
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.35
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 55.1
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	73	71	69	67	71	69	67	66	67	65	64		64	63	62		62	61	60	59
2	68	64	60	57	66	62	59	56	60	57	55		58	56	54		56	54	53	51
3	63	57	53	49	61	56	52	49	54	51	48		52	50	47		51	48	46	45
4	58	51	46	43	57	51	46	42	49	45	42		48	44	41		46	43	41	40
5	54	46	41	38	53	46	41	37	44	40	37		43	39	37		42	39	36	35
6	50	42	37	33	49	42	37	33	40	36	33		39	36	33		38	35	32	31
7	46	38	33	30	45	38	33	30	37	33	29		36	32	29		35	32	29	28
8	43	35	30	27	42	35	30	27	34	30	26		33	29	26		33	29	26	25
9	41	32	28	24	40	32	27	24	31	27	24		31	27	24		30	26	24	23
10	38	30	25	22	37	30	25	22	29	25	22		29	25	22		28	24	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5337	5337	5337
5°	5329	5407	5358
10°	5280	5581	5341
15°	5219	5821	5307
20°	5147	6085	5263
25°	5072	6274	5208
30°	5007	6114	5133
35°	4923	5526	5031
40°	4823	4685	4883
45°	4736	3939	4642
50°	4547	3510	4239
55°	4063	2962	3632
60°	3384	2094	2707
65°	1977	1151	1318
70°	340	165	227
75°	150	109	109
80°	81	61	61
85°	40	40	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	145.0	4.2	2.8	0°	1514	1514	1514	1514	1514	
10°-20°	430.1	12.6	8.3	5°	1506	1513	1528	1519	1514	143
20°-30°	679.8	19.9	13.1	15°	1430	1510	1595	1528	1454	403
30°-40°	794.3	23.3	15.3	25°	1304	1480	1613	1503	1339	601
40°-50°	701.0	20.5	13.5	35°	1144	1335	1284	1352	1169	715
50°-60°	478.4	14.0	9.2	45°	950	938	790	955	931	730
60°-70°	169.6	5.0	3.3	55°	661	481	482	493	591	587
70°-80°	13.0	0.4	0.2	65°	237	167	138	165	158	238
80°-90°	1.3	0.0	0.0	75°	11	10	8	9	8	14
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	0	1
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°	1254.8	36.8	24.1	165°	0	0	0	0	0	0
0°-40°	2049.1	60.0	39.4	175°	0	0	0	0	0	0
0°-60°	3228.5	94.6	62.1	180°	0	0	0	0	0	0
0°-90°	3412.4	100.0	65.6							
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°	3412.4	100.0	65.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1514	1514	1514	1514	1514	1514	1514	1514	1514
2.5°	1514	1511	1512	1517	1518	1519	1515	1516	1518
5°	1506	1506	1513	1524	1528	1527	1519	1516	1514
7.5°	1494	1497	1514	1532	1541	1537	1523	1511	1506
10°	1475	1485	1514	1545	1559	1552	1526	1503	1492
12.5°	1454	1468	1513	1558	1576	1566	1528	1492	1473
15°	1430	1452	1510	1572	1595	1580	1528	1478	1454
17.5°	1402	1431	1507	1582	1611	1591	1527	1462	1430
20°	1372	1409	1502	1588	1622	1597	1524	1443	1403
22.5°	1339	1387	1494	1588	1627	1596	1515	1423	1373
25°	1304	1361	1480	1577	1613	1585	1503	1398	1339
27.5°	1268	1332	1460	1545	1570	1553	1482	1369	1301
30°	1230	1302	1434	1491	1502	1499	1454	1337	1261
32.5°	1187	1269	1393	1409	1401	1419	1412	1301	1217
35°	1144	1230	1335	1300	1284	1312	1352	1259	1169
37.5°	1098	1187	1262	1177	1156	1193	1276	1212	1117
40°	1048	1137	1167	1045	1018	1067	1181	1157	1061
42.5°	997	1080	1058	907	895	935	1072	1093	1000
45°	950	1016	938	783	790	815	955	1022	931
47.5°	898	945	815	681	715	714	836	942	858
50°	829	863	692	601	640	633	712	849	773
52.5°	749	770	576	525	558	555	597	744	685
55°	661	657	481	450	482	476	493	629	591
57.5°	568	538	401	378	399	398	403	509	491
60°	480	418	318	300	297	313	316	385	384
62.5°	380	305	242	211	201	221	237	267	273
65°	237	202	167	139	138	144	165	163	158
67.5°	98	98	100	82	68	84	97	81	60
70°	33	37	48	26	16	26	47	30	22
72.5°	18	18	22	13	11	13	21	15	13
75°	11	11	10	9	8	9	9	10	8
77.5°	7	7	6	6	5	6	6	6	5
80°	4	4	4	4	3	4	4	4	3
82.5°	2	2	2	2	2	2	2	2	2
85°	1	1	1	1	1	1	1	1	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



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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)