

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: 214P100

Luminaire Tested: **2GCXRD-2U6T8A-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCXRD-2U6T8A-PAF
Description: 2 X 2 Recessed Troffer with a .095 pattern 12
acrylic lens.
Light Source: Two-FB31T8/TL735 - 2600 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic: L.O.B.F. = 85.4

Summary

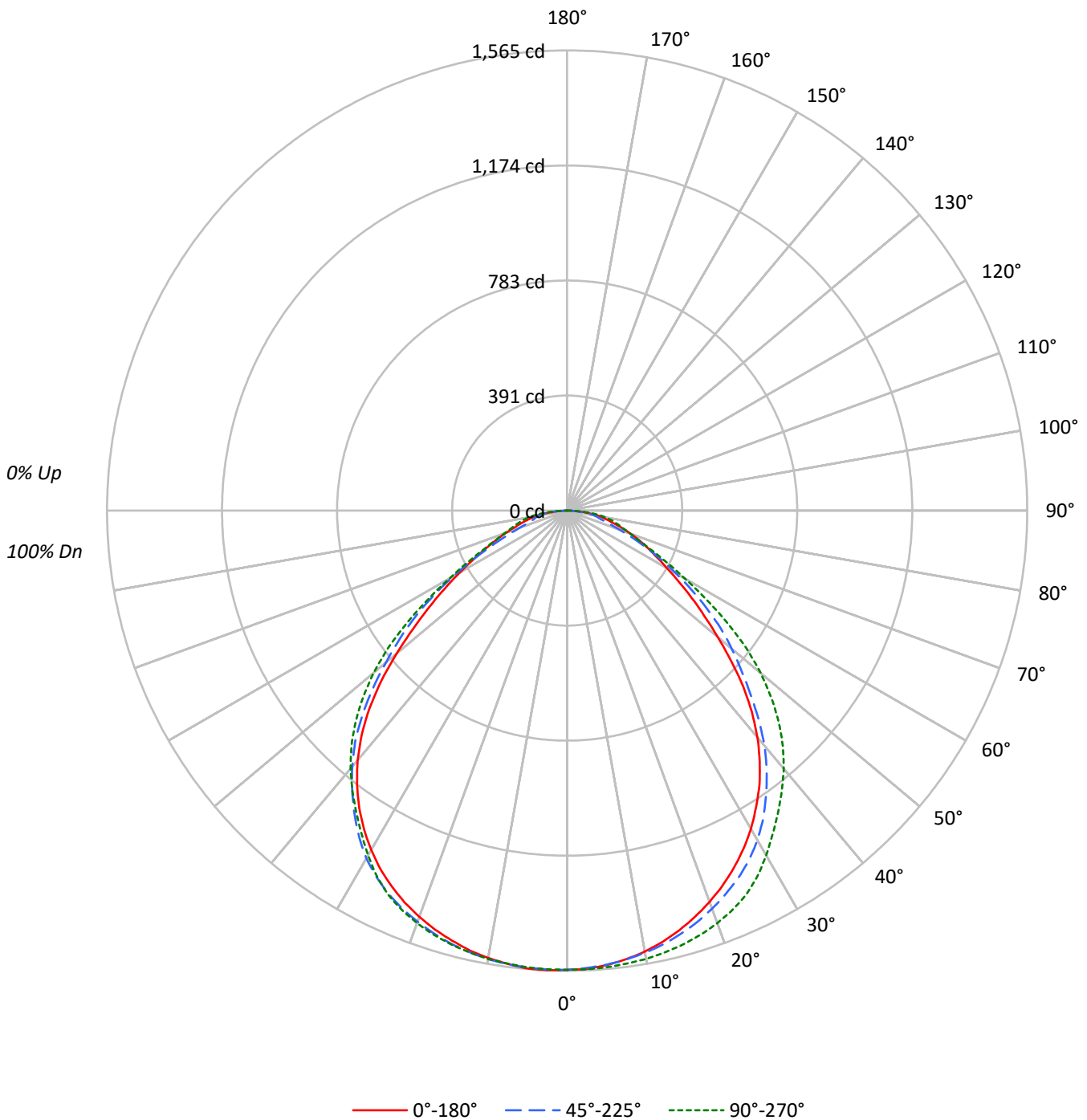
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3771.6 lumens
Efficiency: 72.5%
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.32
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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: 214P100

CATALOG NUMBER: 2GCXRD-2U6T8A-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 214P100

CATALOG NUMBER: 2GCXRD-2U6T8A-PAF

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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73					73			
1	80	77	74	71	78	75	72	70	72	70	68	69	67	66	66	65	64	62					62			
2	73	68	63	59	71	66	62	59	64	60	57	61	59	56	59	57	55	53					53			
3	67	60	55	50	65	59	54	50	57	53	49	55	51	48	53	50	47	46					46			
4	62	54	48	43	60	53	47	43	51	46	42	49	45	42	48	44	41	40					40			
5	57	48	42	38	56	48	42	38	46	41	37	45	40	37	43	40	36	35					35			
6	53	44	38	33	52	43	37	33	42	37	33	41	36	33	40	35	32	31					31			
7	49	40	34	30	48	39	34	30	38	33	29	37	33	29	36	32	29	28					28			
8	46	37	31	27	45	36	30	26	35	30	26	34	30	26	33	29	26	25					25			
9	43	34	28	24	42	33	28	24	32	27	24	32	27	24	31	27	24	22					22			
10	40	31	26	22	39	31	25	22	30	25	22	29	25	22	29	25	22	20					20			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5474	5474	5474
5°	5460	5484	5498
10°	5420	5508	5498
15°	5359	5540	5493
20°	5281	5568	5482
25°	5185	5572	5456
30°	5058	5479	5394
35°	4877	5352	5275
40°	4607	5243	5069
45°	4198	5045	4713
50°	3642	4683	4133
55°	3153	4057	3495
60°	2747	3245	2951
65°	2521	2604	2529
70°	2346	2316	2264
75°	2180	2397	2112
80°	2280	2664	2180
85°	2091	2654	1769



TEST NUMBER: 214P100

CATALOG NUMBER: 2GCXRD-2U6T8A-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	148.0	3.9	2.8	0°	1562	1562	1562	1562	1562	
10°-20°	426.1	11.3	8.2	5°	1552	1550	1559	1560	1563	147
20°-30°	647.6	17.2	12.5	15°	1477	1491	1527	1525	1514	416
30°-40°	760.9	20.2	14.6	25°	1341	1378	1441	1438	1411	617
40°-50°	725.5	19.2	14.0	35°	1140	1180	1251	1261	1233	710
50°-60°	536.0	14.2	10.3	45°	847	880	1018	986	951	649
60°-70°	305.0	8.1	5.9	55°	516	580	664	631	572	465
70°-80°	166.0	4.4	3.2	65°	304	295	314	282	305	303
80°-90°	56.6	1.5	1.1	75°	161	124	177	119	156	174
90°-100°	0.0	0.0	0.0	85°	52	46	66	50	44	55
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	1221.6	32.4	23.5	165°	0	0	0	0	0	0
0°-40°	1982.5	52.6	38.1	175°	0	0	0	0	0	0
0°-60°	3244.0	86.0	62.4	180°	0	0	0	0	0	0
0°-90°	3771.6	100.0	72.5							
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°	3771.6	100.0	72.5							



TEST NUMBER: 214P100

CATALOG NUMBER: 2GCXRD-2U6T8A-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1562	1562	1562	1562	1562	1562	1562	1562	1562
2.5°	1560	1558	1557	1556	1561	1560	1562	1565	1565
5°	1552	1549	1550	1552	1559	1559	1560	1563	1563
7.5°	1539	1537	1540	1546	1554	1555	1556	1558	1555
10°	1523	1521	1527	1537	1548	1549	1549	1548	1545
12.5°	1502	1501	1511	1524	1539	1540	1538	1536	1532
15°	1477	1477	1491	1509	1527	1528	1525	1521	1514
17.5°	1448	1449	1468	1492	1512	1512	1508	1503	1494
20°	1416	1417	1441	1470	1493	1495	1488	1481	1470
22.5°	1381	1383	1411	1445	1470	1472	1465	1455	1443
25°	1341	1344	1378	1414	1441	1445	1438	1425	1411
27.5°	1298	1302	1340	1375	1402	1408	1405	1392	1375
30°	1250	1255	1294	1327	1354	1361	1366	1353	1333
32.5°	1196	1204	1241	1272	1302	1309	1317	1308	1286
35°	1140	1145	1180	1215	1251	1256	1261	1256	1233
37.5°	1076	1080	1115	1156	1200	1203	1201	1196	1174
40°	1007	1007	1044	1092	1146	1150	1137	1127	1108
42.5°	930	927	964	1021	1086	1091	1067	1054	1034
45°	847	842	880	944	1018	1020	986	972	951
47.5°	756	758	803	867	942	934	897	881	857
50°	668	677	731	791	859	836	805	782	758
52.5°	588	598	658	711	767	737	719	689	659
55°	516	521	580	624	664	637	631	599	572
57.5°	450	445	502	537	559	537	540	509	494
60°	392	377	427	457	463	444	446	424	421
62.5°	344	324	359	390	381	365	358	350	358
65°	304	281	295	331	314	304	282	292	305
67.5°	265	244	238	284	263	261	221	247	261
70°	229	211	189	245	226	229	172	209	221
72.5°	193	181	150	210	198	201	137	179	185
75°	161	154	124	177	177	175	119	154	156
77.5°	136	127	108	147	157	148	110	129	132
80°	113	99	94	116	132	120	99	101	108
82.5°	84	71	72	88	102	94	80	73	78
85°	52	43	46	57	66	63	50	46	44
87.5°	22	15	16	21	23	22	19	17	12
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: 214P100

CATALOG NUMBER: 2GCXRD-2U6T8A-PAF

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)