

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: 126P106

Luminaire Tested: **2GC-2U1-5/8A125-PAF**

Issue Date: 3/3/2020



**Test Information**

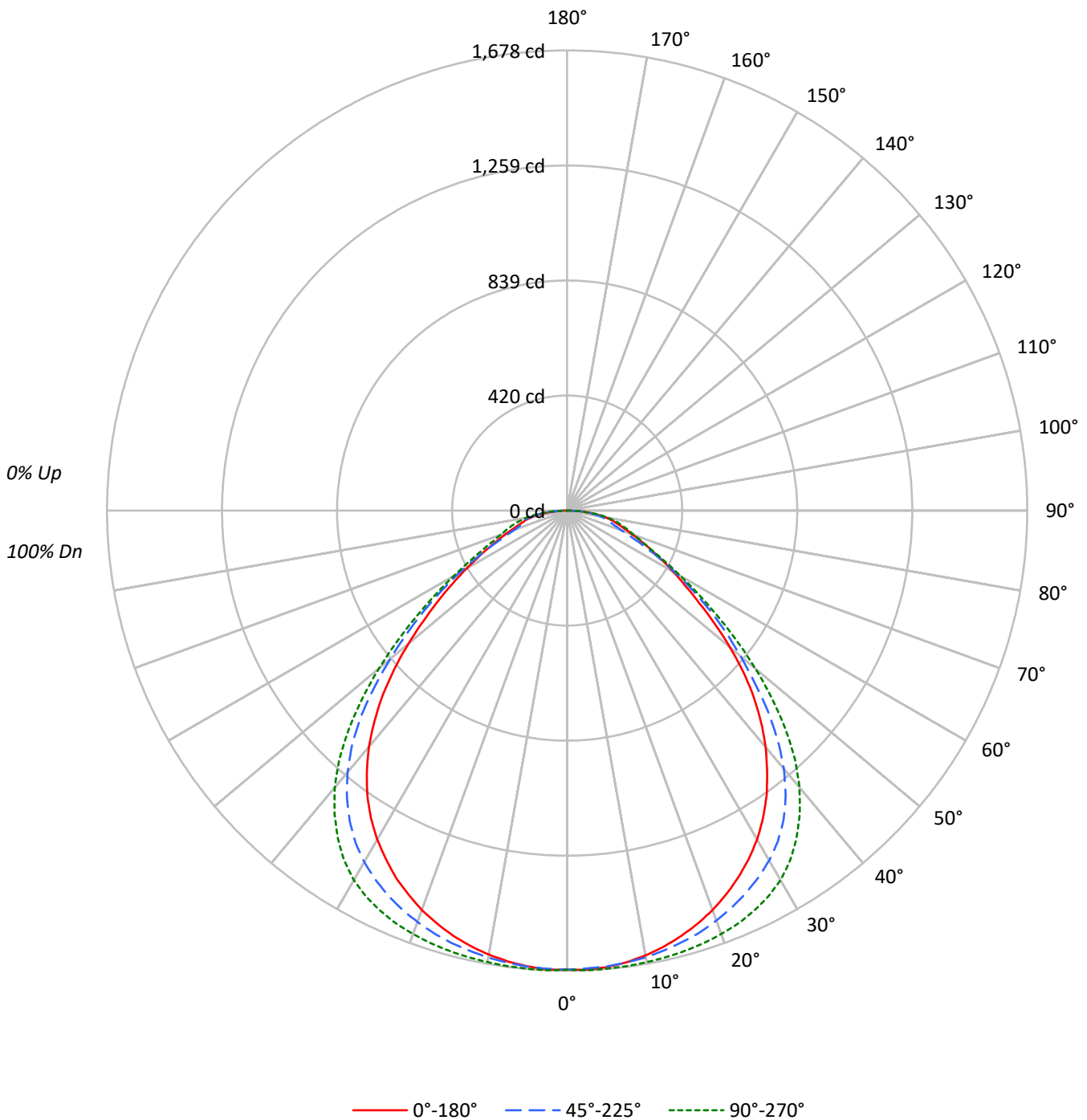
Test Method: LM-41-14  
Report Number: 126P106  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-2U1-5/8A125-PAF  
Description: 2 X 2 Recessed Convertible Body Troffer  
with a .125 pattern 12 acrylic lens.  
Light Source: Two-FBO31/35K - 2900 Lumens ea. - 31 Watts ea.  
Ballast/Driver: Triad-Utrad B232I120RH Electronic

**Summary**

Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4142.9 lumens  
Efficiency: 71.4%  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.35  
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 56.7  
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

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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	50	30	10	0	
RCR																						
0	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71				71
1	78	75	72	70	76	74	71	69	71	69	67	68	66	65	65	64	63	61				61
2	72	67	62	58	70	65	61	58	63	59	56	60	58	55	58	56	54	52				52
3	66	59	54	49	64	58	53	49	56	52	48	54	50	47	52	49	47	45				45
4	61	53	47	43	59	52	46	42	50	45	42	49	44	41	47	44	41	39				39
5	56	48	42	37	55	47	41	37	45	40	37	44	40	36	43	39	36	34				34
6	52	43	37	33	51	42	37	33	41	36	32	40	35	32	39	35	32	30				30
7	48	39	33	29	47	39	33	29	38	33	29	37	32	29	36	32	28	27				27
8	45	36	30	26	44	35	30	26	35	29	26	34	29	26	33	29	26	24				24
9	42	33	27	24	41	33	27	24	32	27	23	31	27	23	30	26	23	22				22
10	40	31	25	21	39	30	25	21	29	25	21	29	24	21	28	24	21	20				20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	5565	5565	5565
5°	5576	5596	5566
10°	5559	5644	5549
15°	5527	5720	5524
20°	5483	5812	5483
25°	5414	5909	5417
30°	5316	5973	5316
35°	5146	5917	5154
40°	4886	5719	4878
45°	4527	5293	4466
50°	4008	4634	3905
55°	3414	3871	3321
60°	2972	3178	2819
65°	2651	2674	2431
70°	2440	2508	2187
75°	2466	2646	2183
80°	2699	2891	2412
85°	2861	2861	2403



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	159.0	3.8	2.7	0°	1674	1674	1674	1674	1674	
10°-20°	461.0	11.1	7.9	5°	1671	1668	1677	1669	1668	159
20°-30°	711.1	17.2	12.3	15°	1606	1628	1662	1632	1605	453
30°-40°	852.5	20.6	14.7	25°	1476	1540	1611	1547	1477	680
40°-50°	799.4	19.3	13.8	35°	1268	1376	1458	1382	1270	790
50°-60°	569.5	13.7	9.8	45°	963	1035	1126	1064	950	738
60°-70°	327.2	7.9	5.6	55°	589	636	668	636	573	533
70°-80°	187.8	4.5	3.2	65°	337	314	340	300	309	337
80°-90°	75.4	1.8	1.3	75°	192	161	206	164	170	205
90°-100°	0.0	0.0	0.0	85°	75	69	75	73	63	75
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1331.1	32.1	22.9	165°	0	0	0	0	0	0
0°-40°	2183.6	52.7	37.6	175°	0	0	0	0	0	0
0°-60°	3552.5	85.7	61.2	180°	0	0	0	0	0	0
0°-90°	4142.9	100.0	71.4							
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°	4142.9	100.0	71.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1674	1674	1674	1674	1674	1674	1674	1674	1674
2.5°	1676	1671	1671	1674	1678	1674	1672	1672	1675
5°	1671	1666	1668	1672	1677	1673	1669	1667	1668
7.5°	1661	1657	1662	1669	1675	1670	1663	1659	1658
10°	1647	1644	1654	1665	1672	1666	1655	1647	1644
12.5°	1629	1628	1642	1659	1668	1661	1644	1632	1627
15°	1606	1607	1628	1651	1662	1653	1632	1614	1605
17.5°	1580	1584	1612	1641	1654	1643	1616	1592	1579
20°	1550	1556	1591	1628	1643	1629	1596	1565	1550
22.5°	1515	1524	1567	1610	1630	1613	1574	1536	1514
25°	1476	1489	1540	1590	1611	1593	1547	1502	1477
27.5°	1433	1449	1509	1564	1587	1567	1516	1464	1432
30°	1385	1404	1473	1531	1556	1533	1480	1420	1385
32.5°	1329	1354	1430	1487	1513	1488	1436	1372	1331
35°	1268	1295	1376	1430	1458	1431	1382	1314	1270
37.5°	1198	1227	1309	1359	1393	1365	1319	1248	1200
40°	1126	1151	1229	1278	1318	1291	1245	1173	1124
42.5°	1047	1066	1137	1188	1229	1206	1161	1090	1040
45°	963	972	1035	1087	1126	1109	1064	998	950
47.5°	871	871	926	980	1012	1002	954	897	854
50°	775	773	824	869	896	887	842	799	755
52.5°	678	683	729	766	780	773	736	699	660
55°	589	601	636	668	668	666	636	610	573
57.5°	512	525	546	577	567	566	541	526	495
60°	447	451	461	491	478	474	452	448	424
62.5°	388	382	383	412	402	395	371	376	362
65°	337	322	314	344	340	326	300	311	309
67.5°	291	270	256	291	293	272	242	257	263
70°	251	230	213	248	258	232	201	216	225
72.5°	219	198	181	212	231	204	177	186	194
75°	192	170	161	180	206	182	164	164	170
77.5°	168	144	146	152	180	161	154	145	150
80°	141	120	125	131	151	141	136	122	126
82.5°	110	96	98	107	116	115	108	97	98
85°	75	68	69	76	75	77	73	68	63
87.5°	37	33	33	36	35	36	32	33	26
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)