

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: 160P101

Luminaire Tested: **GCXF-232A125-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 160P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: GCXF-232A125-PAF
Description: 1 X 4 Recessed Convertible Body Troffer
with a .125 pattern 12 acrylic lens.
Light Source: Two-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

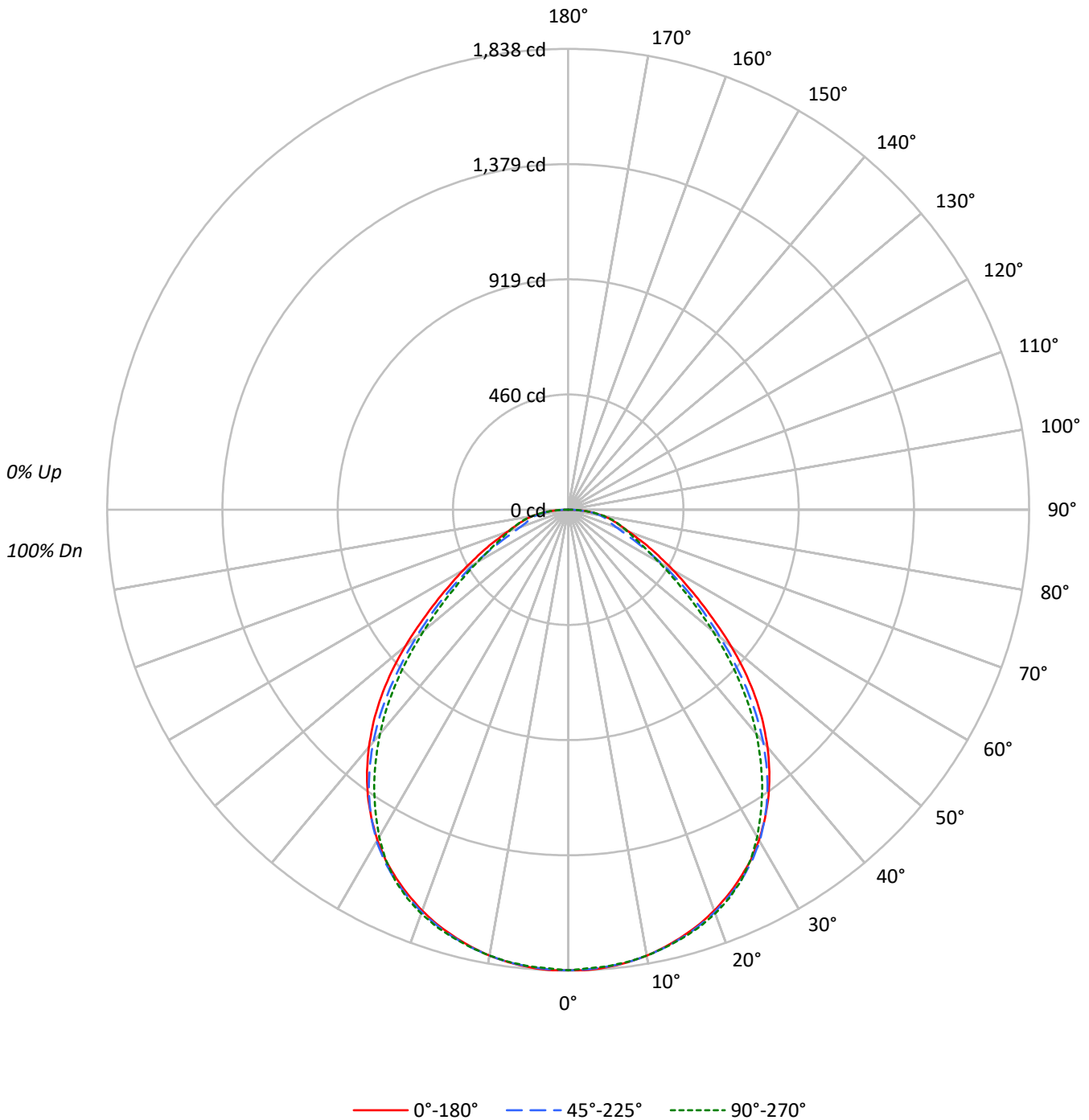
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4183.1 lumens
Efficiency: 72.1%
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.28
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 60.6
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

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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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	79	76	73	71	77	74	72	70	71	69	67	69	67	65	66	65	63	62
2	73	67	63	59	71	66	62	58	64	60	57	61	58	56	59	57	55	53
3	67	60	55	50	65	59	54	50	57	53	49	55	51	48	53	50	47	46
4	62	54	48	44	60	53	47	43	51	46	43	50	45	42	48	44	42	40
5	57	49	43	38	56	48	42	38	46	41	38	45	41	37	44	40	37	35
6	53	44	38	34	52	43	38	34	42	37	33	41	36	33	40	36	33	31
7	49	40	34	30	48	40	34	30	39	33	30	38	33	30	37	33	29	28
8	46	37	31	27	45	36	31	27	35	30	27	35	30	27	34	30	27	25
9	43	34	28	25	42	34	28	24	33	28	24	32	27	24	31	27	24	23
10	41	31	26	22	40	31	26	22	30	26	22	30	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7110	7110	7110
5°	7114	7106	7098
10°	7098	7098	7098
15°	7060	7076	7084
20°	7010	7035	7059
25°	6927	6965	6969
30°	6797	6824	6735
35°	6582	6544	6374
40°	6245	6108	5901
45°	5774	5490	5282
50°	5112	4757	4528
55°	4352	4049	3792
60°	3739	3328	3228
65°	3260	2656	2885
70°	2919	2286	2829
75°	2931	2452	3006
80°	3187	2897	3209
85°	3330	3153	3330



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	173.9	4.2	3.0	0°	1837	1837	1837	1837	1837	
10°-20°	498.3	11.9	8.6	5°	1831	1829	1829	1831	1827	174
20°-30°	749.0	17.9	12.9	15°	1762	1762	1766	1772	1768	497
30°-40°	857.5	20.5	14.8	25°	1622	1623	1631	1636	1632	747
40°-50°	773.1	18.5	13.3	35°	1393	1394	1385	1356	1349	868
50°-60°	545.2	13.0	9.4	45°	1055	1036	1003	975	965	809
60°-70°	319.4	7.6	5.5	55°	645	638	600	581	562	583
70°-80°	189.5	4.5	3.3	65°	356	330	290	306	315	357
80°-90°	77.1	1.8	1.3	75°	196	174	164	178	201	209
90°-100°	0.0	0.0	0.0	85°	75	74	71	76	75	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°	1421.2	34.0	24.5	165°	0	0	0	0	0	0
0°-40°	2278.7	54.5	39.3	175°	0	0	0	0	0	0
0°-60°	3597.0	86.0	62.0	180°	0	0	0	0	0	0
0°-90°	4183.1	100.0	72.1							
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°	4183.1	100.0	72.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837	1837	1837	1837	1837
2.5°	1838	1835	1835	1836	1831
5°	1831	1829	1829	1831	1827
7.5°	1821	1819	1820	1823	1819
10°	1806	1804	1806	1809	1806
12.5°	1786	1784	1788	1792	1788
15°	1762	1762	1766	1772	1768
17.5°	1735	1734	1739	1747	1744
20°	1702	1702	1708	1717	1714
22.5°	1664	1664	1671	1681	1677
25°	1622	1623	1631	1636	1632
27.5°	1576	1576	1583	1583	1575
30°	1521	1523	1527	1517	1507
32.5°	1460	1464	1460	1441	1430
35°	1393	1394	1385	1356	1349
37.5°	1318	1316	1301	1268	1260
40°	1236	1230	1209	1175	1168
42.5°	1149	1137	1110	1077	1070
45°	1055	1036	1003	975	965
47.5°	954	931	894	872	857
50°	849	827	790	770	752
52.5°	742	729	692	672	652
55°	645	638	600	581	562
57.5°	559	553	512	496	485
60°	483	472	430	423	417
62.5°	415	396	354	359	360
65°	356	330	290	306	315
67.5°	302	274	239	264	278
70°	258	231	202	230	250
72.5°	223	199	178	203	226
75°	196	174	164	178	201
77.5°	171	150	150	155	174
80°	143	126	130	134	144
82.5°	110	102	103	108	111
85°	75	74	71	76	75
87.5°	38	39	34	38	35
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)