

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: 108P111

Luminaire Tested: **2GC-240A125-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P111
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-240A125-PAF
Description: 2 X 4 Recessed Troffer with a Plaskolite .125
pattern 12 acrylic lens.
Light Source: -
Ballast/Driver: -

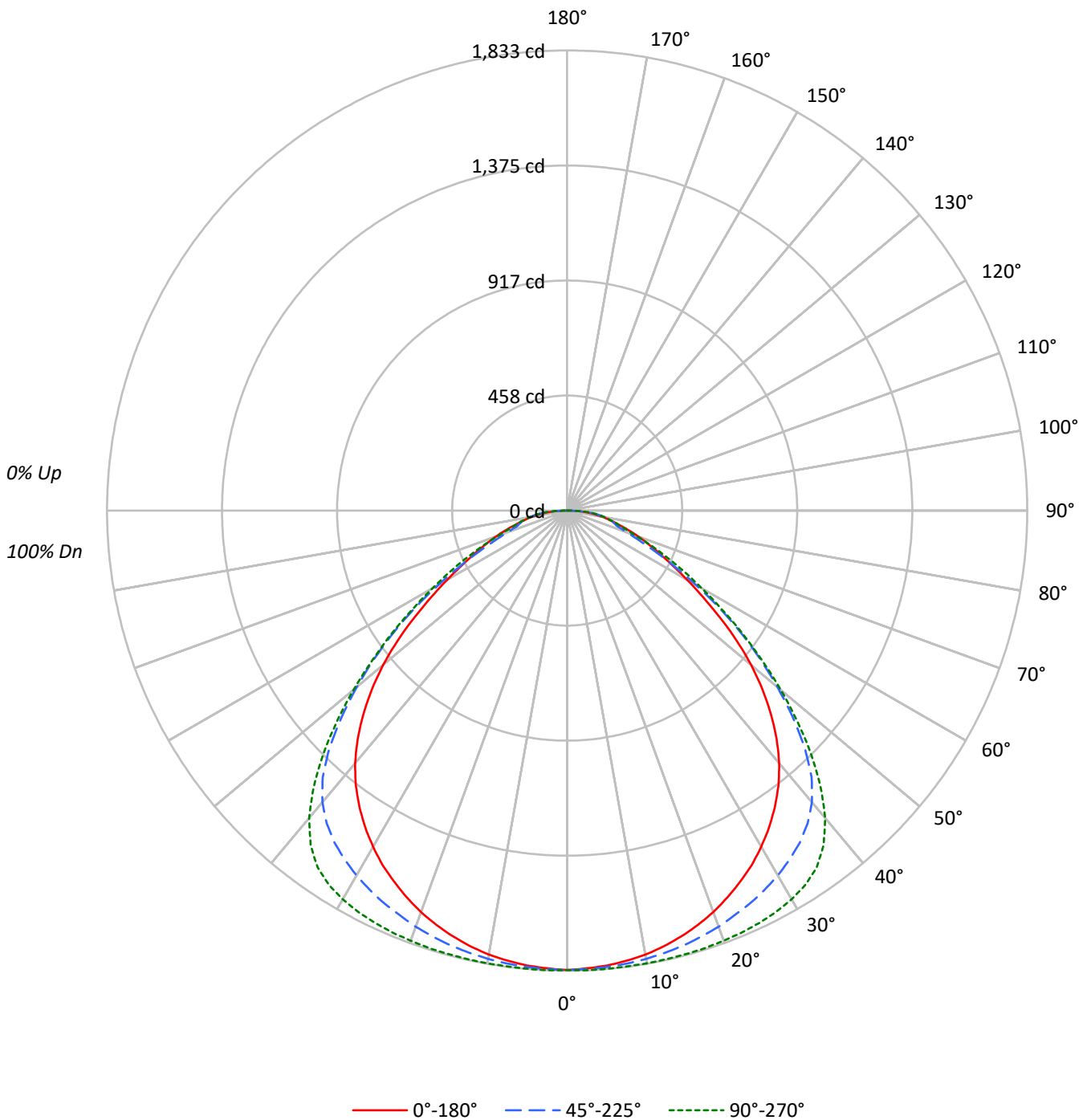
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4919.0 lumens
Efficiency: 78.1%
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.44 / 1.43
Luminous Opening: Rectangular (W 1.86' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 87.2
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									
RC	80									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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	80	80	80	80	80	80	78													
1	86	82	79	76	83	80	78	75	77	75	73	74	72	70	71	70	68	67	67	67	67	67	67	67													
2	78	72	68	63	76	71	66	63	68	64	61	66	63	60	63	61	58	57	57	57	57	57	57	57													
3	72	64	58	53	70	63	57	53	61	56	52	59	55	51	57	53	50	49	49	49	49	49	49	49													
4	66	57	51	46	64	56	50	45	54	49	45	53	48	44	51	47	44	42	42	42	42	42	42	42													
5	61	51	45	40	59	51	44	40	49	43	39	47	43	39	46	42	38	37	37	37	37	37	37	37													
6	56	46	40	35	55	46	39	35	44	39	34	43	38	34	42	37	34	32	32	32	32	32	32	32													
7	52	42	36	31	51	42	35	31	40	35	31	39	34	30	38	34	30	29	29	29	29	29	29	29													
8	49	38	32	28	48	38	32	28	37	31	27	36	31	27	35	30	27	26	26	26	26	26	26	26													
9	46	35	29	25	44	35	29	25	34	28	25	33	28	25	32	28	24	23	23	23	23	23	23	23													
10	43	33	27	23	42	32	26	22	31	26	22	31	26	22	30	25	22	21	21	21	21	21	21	21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2771	2771	2771
5°	2765	2774	2785
10°	2761	2788	2815
15°	2753	2811	2867
20°	2743	2842	2937
25°	2725	2884	3027
30°	2703	2934	3126
35°	2665	2985	3205
40°	2597	2999	3161
45°	2460	2867	2947
50°	2254	2575	2617
55°	1961	2217	2247
60°	1669	1793	1875
65°	1458	1390	1559
70°	1333	1111	1279
75°	1223	1129	1211
80°	1238	1334	1308
85°	1268	1546	1633



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	173.9	3.5	2.8	0°	1830	1830	1830	1830	1830	
10°-20°	507.1	10.3	8.0	5°	1819	1823	1825	1828	1832	173
20°-30°	795.8	16.2	12.6	15°	1756	1769	1793	1817	1829	496
30°-40°	998.7	20.3	15.9	25°	1631	1663	1726	1786	1812	752
40°-50°	997.0	20.3	15.8	35°	1442	1501	1615	1702	1734	900
50°-60°	735.8	15.0	11.7	45°	1149	1238	1339	1374	1376	882
60°-70°	408.7	8.3	6.5	55°	743	798	840	855	851	667
70°-80°	213.3	4.3	3.4	65°	407	402	388	401	435	410
80°-90°	88.7	1.8	1.4	75°	209	188	193	199	207	226
90°-100°	0.0	0.0	0.0	85°	73	81	89	87	94	74
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°	1476.7	30.0	23.4	165°	0	0	0	0	0	0
0°-40°	2475.5	50.3	39.3	175°	0	0	0	0	0	0
0°-60°	4208.3	85.6	66.8	180°	0	0	0	0	0	0
0°-90°	4919.0	100.0	78.1							
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°	4919.0	100.0	78.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830	1830	1830	1830	1830
2.5°	1825	1828	1828	1829	1833
5°	1819	1823	1825	1828	1832
7.5°	1809	1815	1820	1826	1831
10°	1796	1803	1813	1824	1831
12.5°	1778	1788	1804	1821	1830
15°	1756	1769	1793	1817	1829
17.5°	1731	1748	1779	1812	1827
20°	1702	1723	1764	1805	1823
22.5°	1668	1695	1744	1797	1819
25°	1631	1663	1726	1786	1812
27.5°	1592	1628	1703	1774	1802
30°	1546	1589	1678	1758	1788
32.5°	1497	1547	1649	1735	1767
35°	1442	1501	1615	1702	1734
37.5°	1382	1451	1572	1653	1678
40°	1314	1393	1517	1581	1599
42.5°	1235	1325	1441	1487	1495
45°	1149	1238	1339	1374	1376
47.5°	1056	1134	1220	1250	1244
50°	957	1019	1093	1117	1111
52.5°	851	906	967	984	977
55°	743	798	840	855	851
57.5°	641	691	714	727	728
60°	551	588	592	606	619
62.5°	473	491	482	495	522
65°	407	402	388	401	435
67.5°	352	326	311	327	357
70°	301	263	251	271	289
72.5°	252	218	211	230	239
75°	209	188	193	199	207
77.5°	173	167	180	177	178
80°	142	144	153	157	150
82.5°	108	118	121	127	124
85°	73	81	89	87	94
87.5°	40	43	48	45	50
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)