

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: 108P109

Luminaire Tested: **2GC-240A125MIN-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-240A125MIN-PAF
Description: 2 X 4 Recessed Troffer with a Premium Plaskolite
.125 min. pattern 12 acrylic lens.
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

Summary

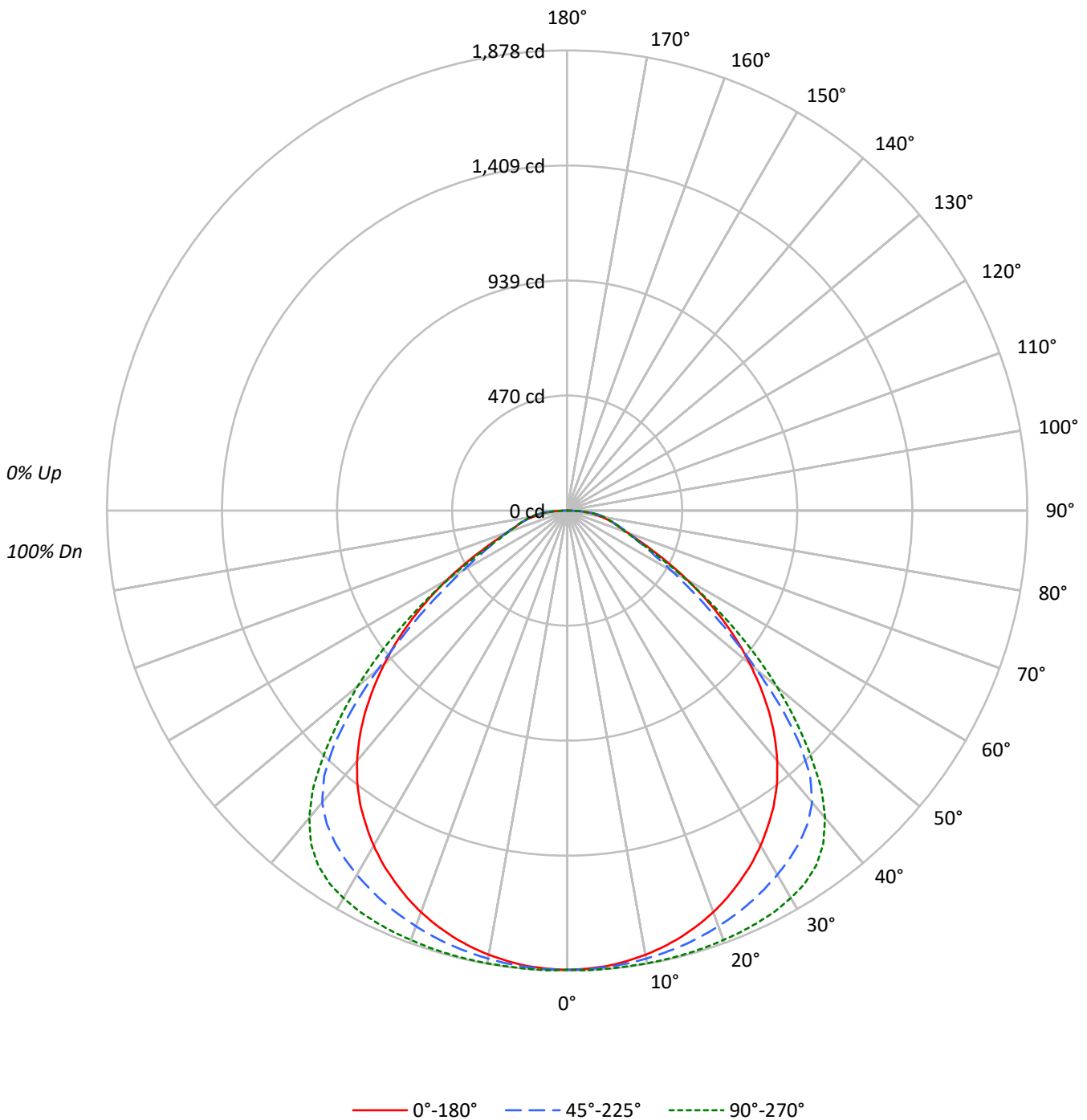
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4876.1 lumens
Efficiency: 77.4%
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.44 / 1.42
Luminous Opening: Rectangular (W 1.86' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 87.5
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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77				77
1	85	82	79	76	83	80	77	75	77	74	72	74	72	70	71	69	68				66	
2	78	72	67	63	76	71	66	62	68	64	61	65	62	60	63	61	58				57	
3	72	64	58	54	70	63	57	53	61	56	52	58	55	51	57	53	50				49	
4	66	57	51	46	64	56	50	46	54	49	45	53	48	44	51	47	44				42	
5	61	51	45	40	59	51	44	40	49	44	39	48	43	39	46	42	39				37	
6	56	47	40	35	55	46	40	35	44	39	35	43	38	34	42	38	34				33	
7	52	42	36	31	51	42	36	31	41	35	31	39	34	31	38	34	31				29	
8	49	39	32	28	48	38	32	28	37	32	28	36	31	28	35	31	27				26	
9	46	36	29	25	44	35	29	25	34	29	25	33	28	25	33	28	25				23	
10	43	33	27	23	42	32	27	23	32	26	23	31	26	23	30	26	23				21	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2838	2838	2838
5°	2836	2842	2853
10°	2831	2855	2884
15°	2823	2878	2936
20°	2810	2908	3005
25°	2788	2950	3094
30°	2761	3000	3193
35°	2717	3056	3272
40°	2637	3074	3236
45°	2497	2867	2998
50°	2294	2372	2631
55°	2038	1882	2170
60°	1711	1487	1687
65°	1376	1250	1297
70°	1147	1155	1120
75°	1141	1164	1158
80°	1195	1334	1334
85°	1442	1633	1529



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	178.1	3.7	2.8	0°	1874	1874	1874	1874	1874	
10°-20°	519.1	10.6	8.2	5°	1866	1867	1870	1873	1877	177
20°-30°	813.8	16.7	12.9	15°	1801	1811	1836	1860	1873	508
30°-40°	1021.2	20.9	16.2	25°	1669	1699	1766	1826	1852	769
40°-50°	1003.0	20.6	15.9	35°	1470	1533	1653	1742	1770	917
50°-60°	670.8	13.8	10.6	45°	1166	1261	1339	1394	1400	895
60°-70°	364.9	7.5	5.8	55°	772	710	713	747	822	689
70°-80°	216.1	4.4	3.4	65°	384	344	349	365	362	390
80°-90°	89.1	1.8	1.4	75°	195	212	199	209	198	206
90°-100°	0.0	0.0	0.0	85°	83	80	94	84	88	78
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	6
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°	1511.0	31.0	24.0	165°	0	0	0	0	0	0
0°-40°	2532.2	51.9	40.2	175°	0	0	0	0	0	0
0°-60°	4206.0	86.3	66.8	180°	0	0	0	0	0	0
0°-90°	4876.1	100.0	77.4							
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°	4876.1	100.0	77.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874	1874	1874	1874	1874
2.5°	1871	1872	1873	1874	1878
5°	1866	1867	1870	1873	1877
7.5°	1855	1858	1865	1871	1876
10°	1841	1846	1857	1868	1876
12.5°	1823	1830	1847	1865	1875
15°	1801	1811	1836	1860	1873
17.5°	1774	1788	1822	1854	1870
20°	1744	1762	1805	1847	1865
22.5°	1709	1733	1787	1838	1860
25°	1669	1699	1766	1826	1852
27.5°	1627	1663	1742	1813	1842
30°	1579	1623	1716	1796	1826
32.5°	1526	1580	1687	1774	1805
35°	1470	1533	1653	1742	1770
37.5°	1406	1482	1612	1694	1716
40°	1334	1424	1555	1623	1637
42.5°	1254	1355	1467	1525	1534
45°	1166	1261	1339	1394	1400
47.5°	1071	1136	1178	1235	1261
50°	974	993	1007	1064	1117
52.5°	876	846	851	895	970
55°	772	710	713	747	822
57.5°	668	591	592	618	683
60°	565	489	491	517	557
62.5°	469	407	411	433	449
65°	384	344	349	365	362
67.5°	313	296	300	312	296
70°	259	262	261	271	253
72.5°	222	237	231	237	224
75°	195	212	199	209	198
77.5°	167	186	169	179	174
80°	137	154	153	149	153
82.5°	114	116	131	119	126
85°	83	80	94	84	88
87.5°	42	42	49	45	45
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)