

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: 108P103

Luminaire Tested: **2GCAML-240S715M-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAML-240S715M-PAF
Description: 2 X 4 Recessed Troffer with a 1 1/2" deep
105 cell specular parabolic louver.
Light Source: Two-F40SPX35 - 3275 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

Summary

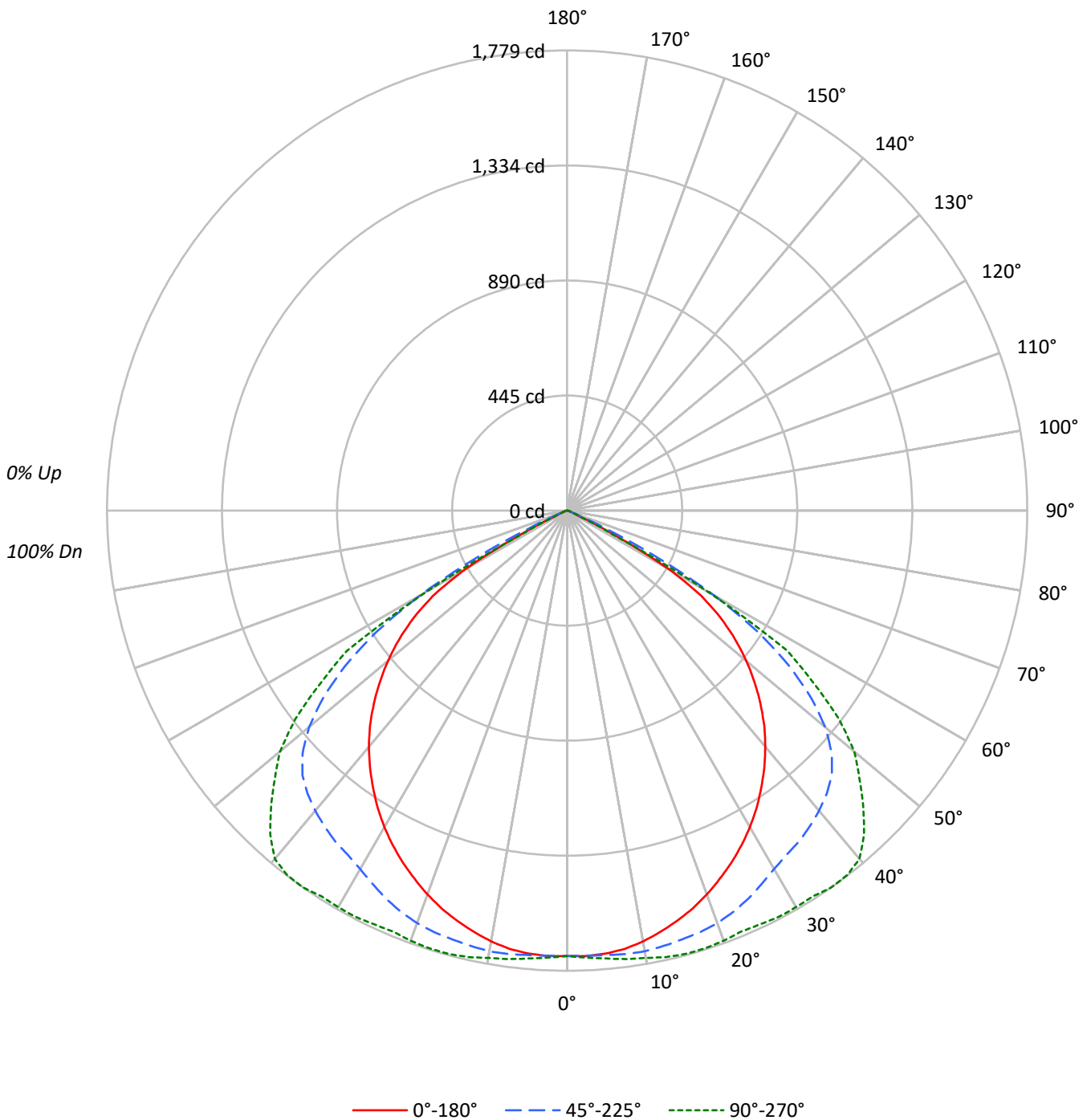
Lumens per Lamp: 3275 (2 lamps)
Luminaire Lumens: 4529.2 lumens
Efficiency: 69.1%
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.57 / 1.54
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 89.9
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	82	82	82	82	80	80	80	80	77	77	77	74	74	74	71	71	71	69
1	77	74	72	70	75	73	71	69	70	68	67	67	66	65	65	64	63	61
2	71	66	62	59	69	65	61	58	63	60	57	61	58	56	58	56	55	53
3	65	59	54	50	64	58	54	50	56	52	49	54	51	48	53	50	47	46
4	60	53	47	43	59	52	47	43	50	46	42	49	45	42	47	44	41	40
5	56	47	42	38	54	47	41	37	45	41	37	44	40	37	43	39	36	35
6	51	43	37	33	50	42	37	33	41	36	33	40	36	32	39	35	32	31
7	48	39	33	29	46	38	33	29	37	32	29	36	32	29	35	31	28	27
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	28	25	24
9	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22
10	39	30	25	21	38	29	24	21	29	24	21	28	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2833	2833	2833
5°	2839	2849	2871
10°	2825	2891	2934
15°	2797	2923	3022
20°	2765	2972	3098
25°	2727	3007	3204
30°	2685	3040	3363
35°	2627	3138	3574
40°	2560	3254	3776
45°	2460	3367	3767
50°	2317	3333	3709
55°	2083	3006	3342
60°	1527	2169	2096
65°	206	639	218
70°	82	91	91
75°	57	64	64
80°	47	57	57
85°	57	57	57



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	164.7	3.6	2.5	0°	1722	1722	1722	1722	1722	
10°-20°	484.2	10.7	7.4	5°	1719	1718	1725	1731	1738	163
20°-30°	760.1	16.8	11.6	15°	1642	1668	1716	1759	1774	463
30°-40°	975.6	21.5	14.9	25°	1502	1561	1656	1726	1765	692
40°-50°	1069.6	23.6	16.3	35°	1308	1418	1562	1706	1779	818
50°-60°	875.0	19.3	13.4	45°	1057	1215	1447	1577	1619	813
60°-70°	185.0	4.1	2.8	55°	726	926	1048	1115	1165	635
70°-80°	11.4	0.3	0.2	65°	53	107	164	77	56	131
80°-90°	3.4	0.1	0.1	75°	9	10	10	10	10	11
90°-100°	0.0	0.0	0.0	85°	3	3	3	3	3	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1409.1	31.1	21.5	165°	0	0	0	0	0	0
0°-40°	2384.7	52.7	36.4	175°	0	0	0	0	0	0
0°-60°	4329.4	95.6	66.1	180°	0	0	0	0	0	0
0°-90°	4529.2	100.0	69.1							
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°	4529.2	100.0	69.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722	1722	1722	1722	1722
2.5°	1724	1720	1722	1723	1730
5°	1719	1718	1725	1731	1738
7.5°	1709	1711	1729	1741	1749
10°	1691	1700	1730	1746	1756
12.5°	1668	1685	1724	1754	1768
15°	1642	1668	1716	1759	1774
17.5°	1613	1647	1709	1759	1774
20°	1579	1622	1697	1750	1769
22.5°	1541	1592	1679	1737	1761
25°	1502	1561	1656	1726	1765
27.5°	1459	1530	1628	1727	1771
30°	1413	1497	1600	1724	1770
32.5°	1363	1461	1578	1715	1768
35°	1308	1418	1562	1706	1779
37.5°	1252	1371	1540	1702	1777
40°	1192	1320	1515	1686	1758
42.5°	1128	1269	1485	1647	1699
45°	1057	1215	1447	1577	1619
47.5°	983	1157	1387	1486	1533
50°	905	1096	1302	1381	1449
52.5°	820	1023	1189	1271	1325
55°	726	926	1048	1115	1165
57.5°	616	794	877	913	1010
60°	464	597	659	659	637
62.5°	221	338	394	297	187
65°	53	107	164	77	56
67.5°	23	30	51	30	27
70°	17	19	19	19	19
72.5°	13	14	13	14	14
75°	9	10	10	10	10
77.5°	7	8	7	8	8
80°	5	6	6	6	6
82.5°	4	5	4	4	4
85°	3	3	3	3	3
87.5°	3	3	2	2	2
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)