

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: 108P105

Luminaire Tested: **2GCAML-340S715M-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAML-340S715M-PAF
Description: 2 X 4 Recessed Troffer with a 1 1/2" deep
105 cell specular parabolic louver.
Light Source: Three-F40WW - 3200 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

Summary

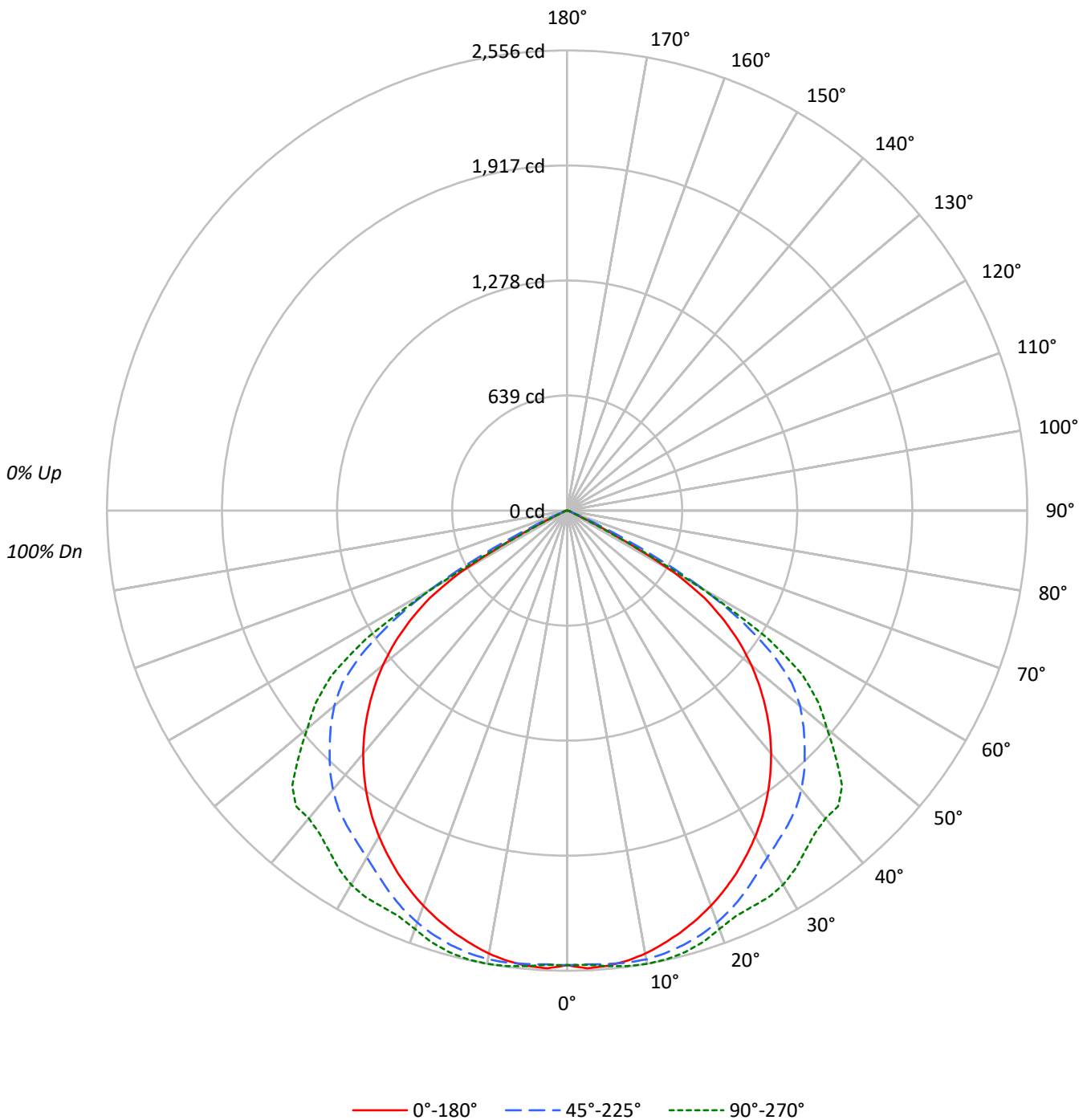
Lumens per Lamp: 3200 (3 lamps)
Luminaire Lumens: 6229.7 lumens
Efficiency: 64.9%
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.45
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 134.7
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	0
RCR																				
0	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	72	70	68	66	71	68	66	65	66	64	63		63	62	61		61	60	59	58
2	67	62	59	56	65	61	58	55	59	56	54		57	55	53		55	53	51	50
3	62	56	51	48	60	55	51	47	53	49	46		51	48	46		50	47	45	44
4	57	50	45	41	55	49	44	41	47	43	40		46	43	40		45	42	39	38
5	52	45	40	36	51	44	39	35	43	38	35		42	38	35		40	37	34	33
6	48	40	35	31	47	40	35	31	39	34	31		38	34	31		37	33	30	29
7	45	37	31	28	44	36	31	28	35	31	27		34	30	27		34	30	27	26
8	42	34	28	25	41	33	28	25	32	28	25		31	27	24		31	27	24	23
9	39	31	26	22	38	30	26	22	30	25	22		29	25	22		28	25	22	21
10	37	28	23	20	36	28	23	20	27	23	20		27	23	20		26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4155	4155	4155
5°	4194	4176	4195
10°	4175	4229	4271
15°	4134	4255	4323
20°	4090	4264	4330
25°	4036	4245	4408
30°	3971	4226	4560
35°	3893	4289	4632
40°	3787	4348	4794
45°	3635	4340	5024
50°	3420	4321	4823
55°	3061	4005	4584
60°	2241	2883	2791
65°	292	849	304
70°	115	130	120
75°	89	89	89
80°	76	76	76
85°	94	94	94



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	241.4	3.9	2.5	0°	2525	2525	2525	2525	2525	
10°-20°	702.3	11.3	7.3	5°	2539	2521	2528	2532	2540	241
20°-30°	1077.4	17.3	11.2	15°	2427	2446	2498	2530	2538	685
30°-40°	1335.8	21.4	13.9	25°	2223	2280	2338	2387	2428	1024
40°-50°	1430.8	23.0	14.9	35°	1938	2025	2135	2257	2306	1211
50°-60°	1172.2	18.8	12.2	45°	1562	1681	1865	2069	2159	1202
60°-70°	248.6	4.0	2.6	55°	1067	1227	1396	1489	1598	934
70°-80°	15.9	0.3	0.2	65°	75	139	218	107	78	189
80°-90°	5.1	0.1	0.1	75°	14	14	14	14	14	16
90°-100°	0.0	0.0	0.0	85°	5	5	5	5	5	5
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	2021.2	32.4	21.1	165°	0	0	0	0	0	0
0°-40°	3357.0	53.9	35.0	175°	0	0	0	0	0	0
0°-60°	5960.1	95.7	62.1	180°	0	0	0	0	0	0
0°-90°	6229.7	100.0	64.9							
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°	6229.7	100.0	64.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2525	2525	2525	2525	2525
2.5°	2545	2524	2523	2521	2525
5°	2539	2521	2528	2532	2540
7.5°	2524	2512	2533	2547	2552
10°	2499	2496	2531	2548	2556
12.5°	2465	2474	2518	2543	2553
15°	2427	2446	2498	2530	2538
17.5°	2384	2414	2471	2503	2512
20°	2336	2375	2435	2466	2473
22.5°	2282	2330	2391	2421	2440
25°	2223	2280	2338	2387	2428
27.5°	2158	2225	2279	2367	2422
30°	2090	2164	2224	2347	2400
32.5°	2017	2097	2178	2311	2359
35°	1938	2025	2135	2257	2306
37.5°	1853	1946	2087	2193	2260
40°	1763	1862	2024	2143	2232
42.5°	1666	1773	1950	2102	2228
45°	1562	1681	1865	2069	2159
47.5°	1453	1586	1781	1970	2022
50°	1336	1484	1688	1821	1884
52.5°	1208	1368	1574	1663	1763
55°	1067	1227	1396	1489	1598
57.5°	904	1042	1161	1231	1323
60°	681	784	876	864	848
62.5°	317	441	524	409	264
65°	75	139	218	107	78
67.5°	34	41	69	42	36
70°	24	25	27	26	25
72.5°	18	19	18	19	19
75°	14	14	14	14	14
77.5°	11	11	11	11	10
80°	8	9	8	8	8
82.5°	6	7	6	6	6
85°	5	5	5	5	5
87.5°	4	4	3	3	3
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)