

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: 126P118

Luminaire Tested: **2GC-317A-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 126P118  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-317A-PAF  
Description: 2 X 2 Recessed Convertible Body Luminaire with a  
.095 pattern 12 acrylic lens.  
Light Source: Three - FO17/35K -1300 Lumens ea. - 17 Watts ea.  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

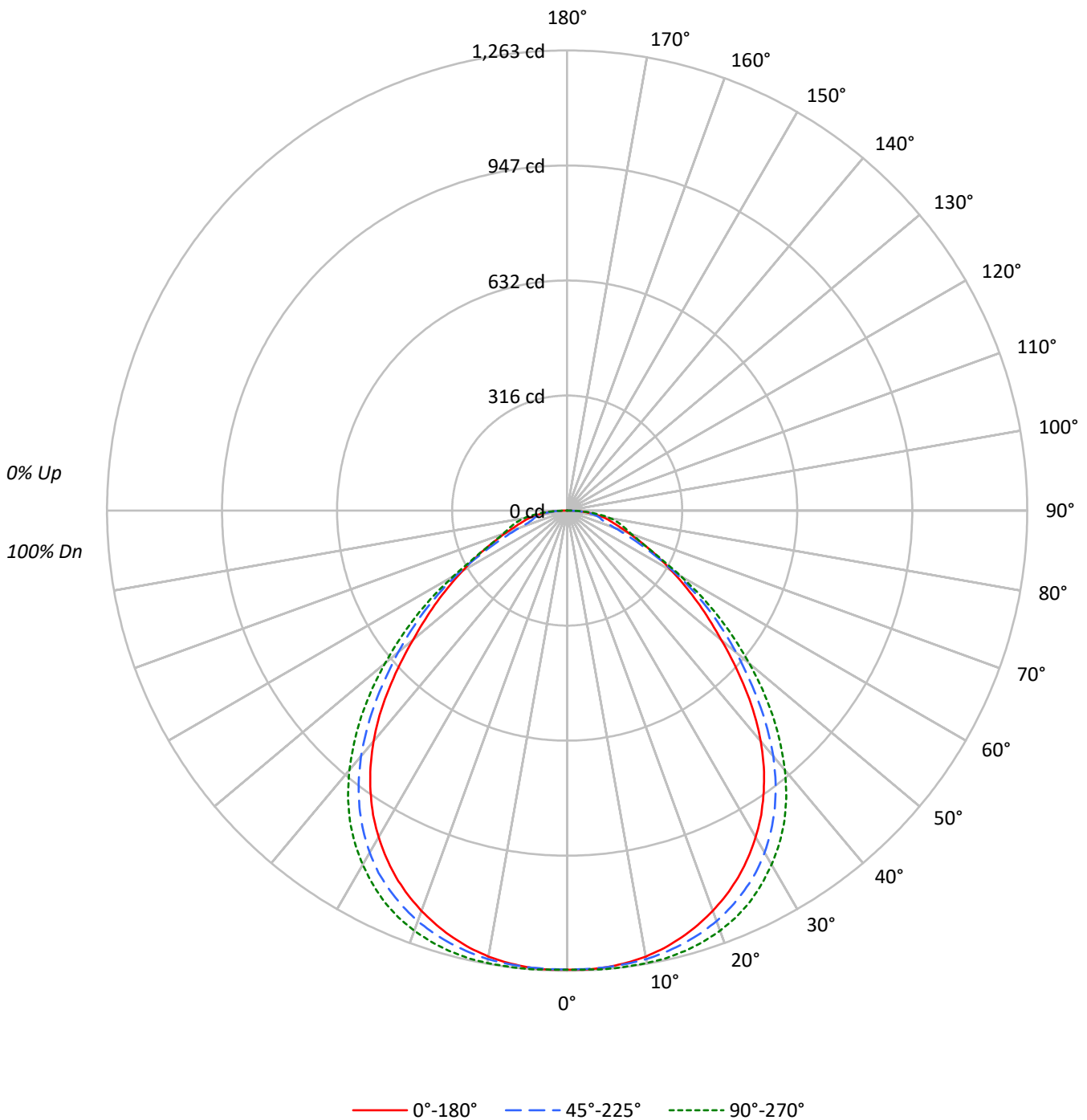
**Summary**

Lumens per Lamp: 1300 (3 lamps)  
Luminaire Lumens: 3039.3 lumens  
Efficiency: 77.9%  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.32  
Luminous Opening: Rectangular (W 1.78' x L: 1.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.1  
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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	86	82	79	76	83	80	78	75	77	75	73	74	72	71	71	70	68	67
2	79	73	68	64	77	71	67	63	68	65	61	66	63	60	64	61	59	57
3	72	65	59	54	70	63	58	54	61	56	53	59	55	52	57	54	51	49
4	67	58	51	47	65	57	51	46	55	50	46	53	49	45	51	48	44	43
5	61	52	46	41	60	51	45	40	50	44	40	48	43	40	47	43	39	38
6	57	47	41	36	56	46	40	36	45	40	35	44	39	35	43	38	35	33
7	53	43	36	32	52	42	36	32	41	36	32	40	35	31	39	35	31	30
8	49	39	33	29	48	39	33	29	38	32	28	37	32	28	36	31	28	27
9	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	24
10	43	34	28	24	42	33	27	24	32	27	23	32	27	23	31	27	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4201	4201	4201
5°	4210	4210	4227
10°	4208	4232	4269
15°	4187	4249	4318
20°	4147	4254	4353
25°	4087	4234	4363
30°	3984	4173	4319
35°	3830	4046	4233
40°	3599	3830	4047
45°	3263	3508	3767
50°	2863	3138	3382
55°	2528	2761	2947
60°	2214	2287	2400
65°	1949	1775	1941
70°	1745	1365	1823
75°	1687	1275	1997
80°	1862	1574	2304
85°	1989	1874	2563



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	119.9	3.9	3.1	0°	1260	1260	1260	1260	1260	
10°-20°	347.6	11.4	8.9	5°	1258	1257	1258	1261	1263	120
20°-30°	528.9	17.4	13.6	15°	1213	1218	1231	1245	1251	342
30°-40°	617.8	20.3	15.8	25°	1111	1123	1151	1176	1186	511
40°-50°	571.3	18.8	14.6	35°	941	958	994	1025	1040	586
50°-60°	420.5	13.8	10.8	45°	692	708	744	773	799	532
60°-70°	242.9	8.0	6.2	55°	435	441	475	495	507	391
70°-80°	134.9	4.4	3.5	65°	247	234	225	252	246	247
80°-90°	55.3	1.8	1.4	75°	131	124	99	138	155	141
90°-100°	0.0	0.0	0.0	85°	52	47	49	59	67	52
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	996.4	32.8	25.5	165°	0	0	0	0	0	0
0°-40°	1614.3	53.1	41.4	175°	0	0	0	0	0	0
0°-60°	2606.1	85.7	66.8	180°	0	0	0	0	0	0
0°-90°	3039.3	100.0	77.9							
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°	3039.3	100.0	77.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1260	1260	1260	1260	1260
2.5°	1261	1260	1259	1261	1261
5°	1258	1257	1258	1261	1263
7.5°	1252	1252	1255	1260	1262
10°	1243	1244	1250	1258	1261
12.5°	1230	1233	1242	1253	1258
15°	1213	1218	1231	1245	1251
17.5°	1193	1200	1217	1234	1241
20°	1169	1178	1199	1219	1227
22.5°	1142	1153	1177	1201	1209
25°	1111	1123	1151	1176	1186
27.5°	1075	1090	1121	1146	1156
30°	1035	1051	1084	1111	1122
32.5°	991	1007	1042	1070	1084
35°	941	958	994	1025	1040
37.5°	887	904	940	973	988
40°	827	844	880	914	930
42.5°	762	777	814	847	866
45°	692	708	744	773	799
47.5°	621	638	673	696	727
50°	552	571	605	626	652
52.5°	491	506	539	561	579
55°	435	441	475	495	507
57.5°	382	380	409	429	434
60°	332	324	343	363	360
62.5°	287	276	281	302	296
65°	247	234	225	252	246
67.5°	210	199	178	212	211
70°	179	169	140	183	187
72.5°	152	145	113	159	170
75°	131	124	99	138	155
77.5°	115	103	92	118	139
80°	97	83	82	98	120
82.5°	76	64	68	80	96
85°	52	47	49	59	67
87.5°	27	26	27	32	33
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)