

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: 126P119

Luminaire Tested: **2GC-317A19/156-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 126P119  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-317A19/156-PAF  
Description: 2 X 2 Recessed Convertible Body Luminaire with a  
.156 pattern 19 acrylic lens.  
Light Source: Three - FO17/35K - 1300 Lumens ea. - 17 Watts ea.  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

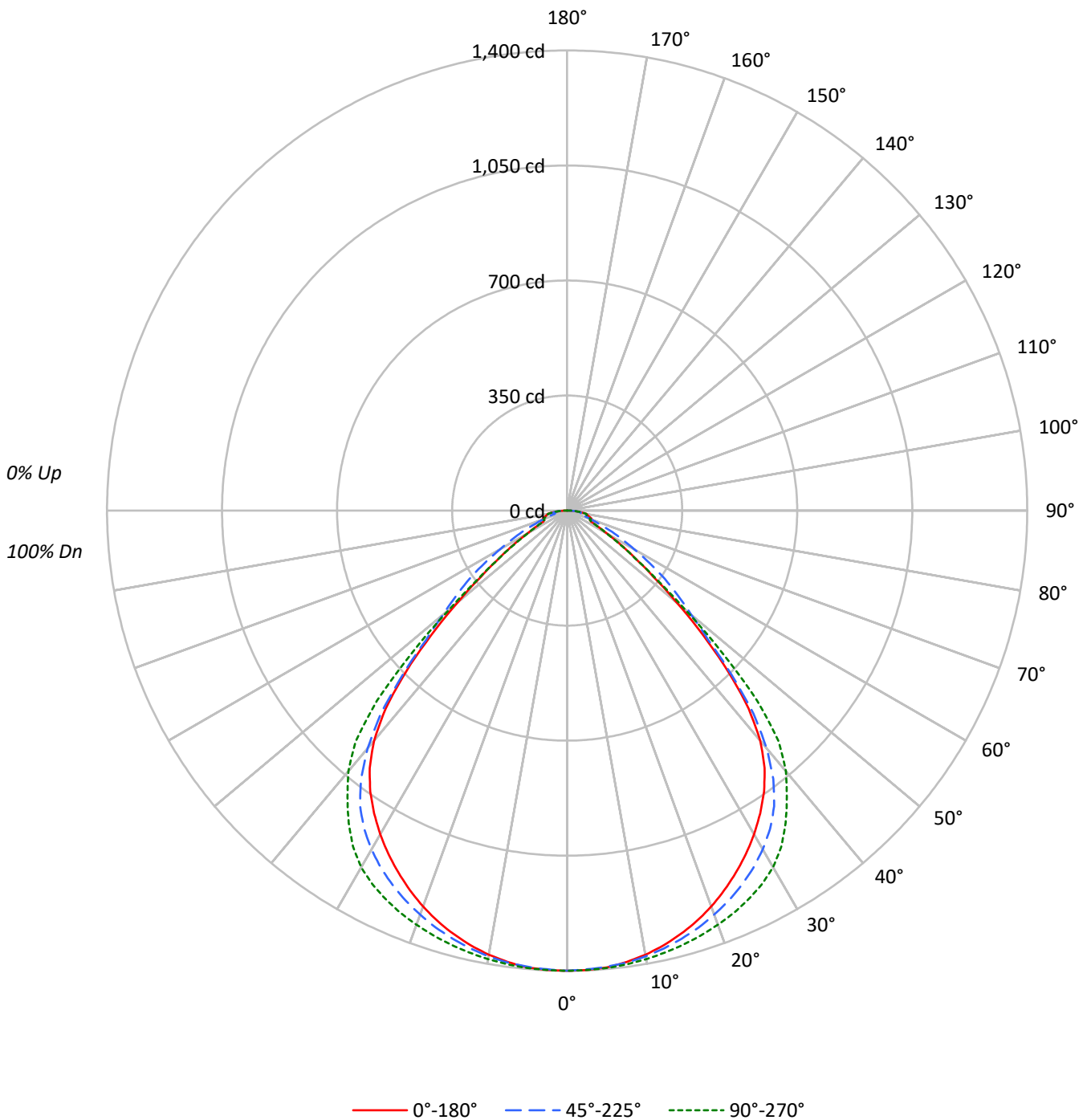
**Summary**

Lumens per Lamp: 1300 (3 lamps)  
Luminaire Lumens: 2906.8 lumens  
Efficiency: 74.5%  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.28  
Luminous Opening: Rectangular (W 1.78' x L: 1.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.9  
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

TEST NUMBER: 126P119

CATALOG NUMBER: 2GC-317A19/156-PAF

### Luminous Intensity Polar Plot





TEST NUMBER: 126P119

CATALOG NUMBER: 2GC-317A19/156-PAF

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0														
RCR																																						
0	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	75																				
1	83	80	77	75	81	78	76	73	75	73	71	72	70	69	69	68	67	65																				
2	76	71	67	64	75	70	66	63	67	64	61	65	62	60	63	61	59	57																				
3	71	64	59	55	69	63	58	54	61	57	53	59	55	53	57	54	52	50																				
4	66	58	52	48	64	57	52	48	55	51	47	53	50	46	52	49	46	44																				
5	61	52	47	42	59	52	46	42	50	45	42	49	45	41	47	44	41	39																				
6	57	48	42	38	55	47	42	37	46	41	37	45	40	37	44	40	37	35																				
7	53	44	38	34	52	43	38	34	42	37	33	41	37	33	40	36	33	32																				
8	49	40	34	30	48	40	34	30	39	34	30	38	33	30	37	33	30	29																				
9	46	37	32	28	45	37	31	28	36	31	28	35	31	27	34	30	27	26																				
10	44	34	29	25	43	34	29	25	33	29	25	33	28	25	32	28	25	24																				

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

	0°	45°	90°
0°	4667	4667	4667
5°	4669	4662	4675
10°	4645	4662	4692
15°	4604	4653	4718
20°	4548	4641	4758
25°	4469	4624	4801
30°	4377	4581	4824
35°	4249	4469	4717
40°	3978	4108	4504
45°	3272	3338	3857
50°	2256	2552	2427
55°	1471	2110	1459
60°	947	1574	920
65°	639	1128	647
70°	780	731	741
75°	876	528	799
80°	1152	806	1133
85°	1148	1262	1224



TEST NUMBER: 126P119

CATALOG NUMBER: 2GC-317A19/156-PAF

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	132.6	4.6	3.4	0°	1400	1400	1400	1400	1400	
10°-20°	381.0	13.1	9.8	5°	1395	1393	1393	1396	1397	132
20°-30°	579.7	19.9	14.9	15°	1334	1337	1348	1362	1367	376
30°-40°	682.4	23.5	17.5	25°	1215	1226	1257	1291	1305	560
40°-50°	565.0	19.4	14.5	35°	1044	1056	1098	1139	1159	649
50°-60°	300.6	10.3	7.7	45°	694	715	708	792	818	527
60°-70°	147.5	5.1	3.8	55°	253	349	363	351	251	236
70°-80°	83.6	2.9	2.1	65°	81	170	143	176	82	92
80°-90°	34.4	1.2	0.9	75°	68	100	41	103	62	73
90°-100°	0.0	0.0	0.0	85°	30	37	33	35	32	31
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1093.3	37.6	28.0	165°	0	0	0	0	0	0
0°-40°	1775.7	61.1	45.5	175°	0	0	0	0	0	0
0°-60°	2641.3	90.9	67.7	180°	0	0	0	0	0	0
0°-90°	2906.8	100.0	74.5							
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°	2906.8	100.0	74.5							



TEST NUMBER: 126P119

CATALOG NUMBER: 2GC-317A19/156-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1400	1400	1400	1400	1400
2.5°	1399	1398	1397	1399	1399
5°	1395	1393	1393	1396	1397
7.5°	1385	1385	1387	1390	1392
10°	1372	1373	1377	1383	1386
12.5°	1355	1357	1364	1373	1377
15°	1334	1337	1348	1362	1367
17.5°	1310	1315	1330	1348	1355
20°	1282	1289	1308	1332	1341
22.5°	1250	1259	1284	1313	1325
25°	1215	1226	1257	1291	1305
27.5°	1178	1189	1226	1266	1282
30°	1137	1149	1190	1235	1253
32.5°	1093	1106	1149	1194	1212
35°	1044	1056	1098	1139	1159
37.5°	987	1000	1030	1073	1098
40°	914	931	944	1003	1035
42.5°	817	836	839	919	953
45°	694	715	708	792	818
47.5°	561	598	582	643	638
50°	435	500	492	522	468
52.5°	331	419	425	427	340
55°	253	349	363	351	251
57.5°	192	291	297	290	187
60°	142	242	236	243	138
62.5°	105	203	186	206	104
65°	81	170	143	176	82
67.5°	75	147	104	153	75
70°	80	131	75	136	76
72.5°	76	116	55	120	70
75°	68	100	41	103	62
77.5°	64	83	37	86	61
80°	60	64	42	66	59
82.5°	47	49	42	48	48
85°	30	37	33	35	32
87.5°	14	20	15	18	15
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



TEST NUMBER: 126P119

CATALOG NUMBER: 2GC-317A19/156-PAF

**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)